## Section 1. Identification

| Product name | : CA 8211/F36176 BASE COMPONENT |
| :--- | :--- |
| Product code | : CA 8211/F36176 BASE COMPONENT |
| Other means of <br> identification <br> Product type | : Not available. |
|  | : Liquid. |

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

Product use
: Industrial applications.
Use of the substance/ : Coating.
mixture
Uses advised against : Not applicable.

| Manufacturer | : PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 8183626711 |
| :---: | :---: |
| Emergency telephone | : (412) 434-4515 (U.S.) |
| number | (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 CFR 1910.1200).
: FLAMMABLE LIQUIDS - Category 3
EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) Category 3
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: $3.4 \%$ (Oral), 17.7\% (Dermal), 54.8\% (Inhalation)

Product code CA 8211/F36176 BASE COMPONENT Date of issue 27 July 2020 Version 21 Product name CA 8211/F36176 BASE COMPONENT

## Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

## GHS label elements <br> Hazard pictograms

Signal word
Hazard statements

Precautionary statements
Prevention

## Response

## Storage

Disposal

## Supplemental label elements

:

: Danger
: Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child.
: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
: $\sqrt{F}$ 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 feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 advice or attention.
: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
: Dispose of contents and container in accordance with all local, regional, national and international regulations.
: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

## Hazards not otherwise classified

## Section 3. Composition/information on ingredients

| Substance/mixture | $:$ Mixture |
| :--- | :--- |
| Product name | $:$ CA 8211/F36176 BASE COMPONENT |


| Ingredient name | $\%$ | CAS number |
| :--- | :--- | :--- |
| barium sulfate | $\geq 10-\leq 18$ | $7727-43-7$ |
| butanone | $\geq 10-\leq 14$ | $78-93-3$ |
| heptan-2-one | $\geq 10-\leq 12$ | $110-43-0$ |
| 1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, | $\geq 5.0-\leq 11$ | $69929-19-7$ |
| 1,2-ethanediol, hexanedioic acid and 1,6-hexanediol | $\geq 5.0-\leq 10$ | $13463-67-7$ |
| titanium dioxide | $\geq 5.0-\leq 7.1$ | $123-54-6$ |
| pentane-2,4-dione | $\geq 1.0-\leq 3.9$ | $108419-33-6$ |
| Acetic acid, C8-10-branched alkyl esters, C9-rich | $\geq 1.0-\leq 5.0$ | $108-65-6$ |
| 2-methoxy-1-methylethyl acetate | $<1.0$ | $1333-86-4$ |
| carbon black, respirable powder | $<1.0$ | $108-88-3$ |
| toluene | $<1.0$ | $77-58-7$ |
| dibutyltin dilaurate |  |  |

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
Inhalation

Skin 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 contact | $:$ Causes serious eye irritation. |
| :--- | :--- |
| Inhalation | : Can cause central nervous system (CNS) depression. May cause drowsiness or |
| dizziness. |  |
| Skin contact | $:$Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin <br> reaction. |
| Ingestion | $:$ Can cause central nervous system (CNS) depression. |

Product code CA 8211/F36176 BASE COMPONENT Date of issue 27 July 2020 Version 21 Product name CA 8211/F36176 BASE COMPONENT

## Section 4. First aid measures

## Over-exposure signs/symptoms

| Eye contact | Adverse symptoms may include the following: pain or irritation watering redness |
| :---: | :---: |
| Inhalation | Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

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

Notes to physician
Specific treatments
Protection of first-aiders
: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
: 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. 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 : Use dry chemical, $\mathrm{CO}_{2}$, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media

## Section 5. Fire-fighting measures

Specific hazards arising from the chemical
: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal
decomposition products

Special protective actions for fire-fighters

Special protective equipment for fire-fighters
: Decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
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

Large 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.
: 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

Special precautions

Advice on general occupational hygiene
: 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. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
: 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.
: 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, : Do not store above the following temperature: $35^{\circ} \mathrm{C}\left(95^{\circ} \mathrm{F}\right)$. Store in accordance with
including any
incompatibilities
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 |
| :---: | :---: |
| barium sulfate | ACGIH TLV (United States, 3/2019). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable fraction <br> OSHA PEL (United States, 5/2018). <br> TWA: $5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Respirable fraction <br> TWA: $15 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust ACGIH TLV (United States, 3/2019). <br> STEL: $885 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. <br> STEL: 300 ppm 15 minutes. <br> TWA: $590 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. |
|  | United States Page: 6/17 |

Product code CA 8211/F36176 BASE COMPONENT Date of issue 27 July 2020 Version 21 Product name CA 8211/F36176 BASE COMPONENT

## Section 8. Exposure controls/personal protection

heptan-2-one
1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-
1,3-propanediol, 1,2-ethanediol, hexanedioic acid and 1,6-hexanediol
titanium dioxide
pentane-2,4-dione

Acetic acid, C8-10-branched alkyl esters, C9-rich
2-methoxy-1-methylethyl acetate
carbon black, respirable powder
toluene
TWA: 200 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: $590 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
TWA: 200 ppm 8 hours.
ACGIH TLV (United States, 3/2019).
TWA: $233 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
TWA: 50 ppm 8 hours.
OSHA PEL (United States, 5/2018).
TWA: $465 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
TWA: 100 ppm 8 hours.
None.
OSHA PEL (United States, 5/2018).
TWA: $15 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Total dust
ACGIH TLV (United States, 3/2019).
TWA: $10 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
ACGIH TLV (United States, 3/2019).
Absorbed through skin.
TWA: 25 ppm 8 hours.
None.
IPEL (PPG, 10/2017). Absorbed through skin.
TWA: 30 ppm
STEL: 90 ppm
ACGIH TLV (United States, 3/2019).
TWA: $3 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. Form: Inhalable fraction
OSHA PEL (United States, 5/2018).
TWA: $3.5 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.
OSHA PEL Z2 (United States, 2/2013).
AMP: 500 ppm 10 minutes.
CEIL: 300 ppm
TWA: 200 ppm 8 hours.
ACGIH TLV (United States, 3/2019).
TWA: 20 ppm 8 hours.
dibutyltin dilaurate
ACGIH TLV (United States, 3/2019).
Absorbed through skin.
STEL: $0.2 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn$) 15$ minutes.
TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn ) 8 hours.
OSHA PEL (United States, 5/2018).
TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn ) 8 hours.
OSHA PEL (United States).
TWA: $0.1 \mathrm{mg} / \mathrm{m}^{3}$, (as Sn )
Key to abbreviations

| A | $=$ Acceptable Maximum Peak |
| :---: | :--- |
| ACGIH | $=$ American Conference of Governmental Industrial Hygienists. |
| C | $=$ Ceiling Limit |
| F | $=$ Fume |
| IPEL | $=$ Internal Permissible Exposure Limit |
| OSHA | $=$ Occupational Safety and Health Administration. |
| R | $=$ Respirable |
| Z | $=$ OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances |


| S | $=$ Potential skin absorption |
| ---: | :--- |
| SR | $=$ Respiratory sensitization |
| SS | $=$ Skin sensitization |
| STEL | $=$ Short term Exposure limit values |
| TD | $=$ Total dust |
| TLV | $=$ Threshold Limit Value |
| TWA | $=$ Time Weighted Average |

## Section 8. Exposure controls/personal protection

## Consult local authorities for acceptable exposure limits.

Recommended monitoring : If this product contains ingredients with exposure limits, personal, workplace procedures 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 <br> controls | : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or <br> other engineering controls to keep worker exposure to airborne contaminants below any <br> recommended or statutory limits. The engineering controls also need to keep gas, <br> vapor or dust concentrations below any lower explosive limits. Use explosion-proof |
| :--- | :--- |
| ventilation equipment. |  |

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. |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Gloves | For prolonged or repeated handling, use the following type of gloves: <br> Recommended: neoprene, natural rubber (latex), butyl rubber May be used: nitrile rubber, Chloroprene |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear 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. |

## Section 8. Exposure controls/personal protection

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

## Section 9. Physical and chemical properties

| Appearance |  |
| :---: | :---: |
| Physical state | Liquid. |
| Color | Gray. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point | Not available. |
| Boiling point | $>37.78^{\circ} \mathrm{C}$ ( $>100^{\circ} \mathrm{F}$ ) |
| Flash point | Closed cup: $26.67^{\circ} \mathrm{C}\left(80^{\circ} \mathrm{F}\right)$ |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower and upper explosive (flammable) limits | Not available. |
| Evaporation rate | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | 1.28 |
| Density ( lbs / gal ) | 10.68 |
| Solubility | Insoluble in the following materials: cold water. |
| Partition coefficient: n octanol/water | Not available. |
| Viscosity | Kinematic ( $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ ): $>0.21 \mathrm{~cm}^{2} / \mathrm{s}(>21 \mathrm{cSt})$ |
| VOC | 491 g/l |
| \% Solid. (w/w) | : 61.75 |

## Section 10. Stability and reactivity

Reactivity
Chemical stability : The product is stable.

Possibility of hazardous reactions
: No specific test data related to reactivity available for this product or its ingredients.
: 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.

## Section 10. Stability and reactivity

Incompatible materials

Hazardous decomposition products
: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
: 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 |
| :---: | :---: | :---: | :---: | :---: |
| barium sulfate | LD50 Dermal | Rat | >2000 mg/kg | - |
|  | LD50 Oral | Rat | $>5000 \mathrm{mg} / \mathrm{kg}$ | - |
| butanone | LD50 Dermal | Rabbit | $6480 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $2737 \mathrm{mg} / \mathrm{kg}$ | - |
| heptan-2-one | LC50 Inhalation Vapor | Rat | 16.7 mg/l | 4 hours |
|  | LD50 Dermal | Rabbit | $10.206 \mathrm{~g} / \mathrm{kg}$ | - |
| titanium dioxide | LD50 Oral | Rat | $1.6 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LC50 Inhalation Dusts and mists | Rat | $>6.82 \mathrm{mg} / \mathrm{l}$ | 4 hours |
| pentane-2,4-dione | LD50 Dermal | Rabbit | $>5000 \mathrm{mg} / \mathrm{kg}$ |  |
|  | LD50 Oral | Rat | >5000 mg/kg |  |
|  | LC50 Inhalation Vapor | Rat | $5.1 \mathrm{mg} / \mathrm{l}$ | 4 hours |
|  | LD50 Dermal | Rat | $790 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $570 \mathrm{mg} / \mathrm{kg}$ | - |
| Acetic acid, C8-10-branched alkyl esters, C9-rich | LD50 Oral | Rat - Female | >2000 mg/kg | - |
| 2-methoxy-1-methylethyl acetate | LD50 Dermal | Rabbit | $>5 \mathrm{~g} / \mathrm{kg}$ | - |
| carbon black, respirable powder | LD50 Oral | Rat | $8532 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Dermal | Rabbit | $>3 \mathrm{~g} / \mathrm{kg}$ | - |
| toluene | LD50 Oral | Rat | >15400 mg/kg |  |
|  | LC50 Inhalation Vapor | Rat | $49 \mathrm{~g} / \mathrm{m}^{3}$ | 4 hours |
|  | LD50 Dermal | Rabbit | $8.39 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | 5580 mg/kg | - |
| dibutyltin dilaurate | LD50 Oral | Rat | 2071 mg/kg | - |

Conclusion/Summary

## Irritation/Corrosion

## Conclusion/Summary

## Sensitization

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

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

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

| Product code CA 8211/F36176 BASE COMPONENT | Date of issue 27 July 2020 | Version 21 |
| :--- | :--- | :--- |
| Product name CA 8211/F36176 BASE COMPONENT |  |  |
| Section 11. Toxicological information |  |  |

## Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
| :--- | :--- | :--- | :--- |
| Acetic acid, C8-10-branched <br> alkyl esters, C9-rich | OECD 471 Bacterial <br> Reverse Mutation Test | Experiment: In vitro <br> Subject: Bacteria | Positive |
| Conclusion/Summary <br> Carcinogenicity | There are no data available on the mixture itself. |  |  |
| Conclusion/Summary <br> Classification | : There are no data available on the mixture itself. |  |  |


| Product/ingredient name | OSHA | IARC | NTP |
| :--- | :--- | :--- | :--- |
| tifanium dioxide <br> carbon black, respirable <br> powder <br> toluene | - | 2B | - |

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

## Reproductive toxicity

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

## Teratogenicity

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

| Name | Category | Route of exposure | Target organs |
| :---: | :---: | :---: | :---: |
| butanone | Category 3 | - | Narcotic effects |
| heptan-2-one | Category 3 | - | Narcotic effects |
| Acetic acid, C8-10-branched alkyl esters, C9-rich | Category 3 | - | Respiratory tract irritation |
|  | Category 3 |  | Narcotic effects |
| toluene | Category 3 | - | Narcotic effects |
| dibutyltin dilaurate | Category 1 |  | thymus |

## Specific target organ toxicity (repeated exposure)

| Name | Category | Route of <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| toluene <br> dibutyltin dilaurate | Category 2 <br> Category 1 | oral | immune system |

## Target organs

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

## Aspiration hazard

Product code CA 8211/F36176 BASE COMPONENT Date of issue 27 July 2020 Version 21

## Product name CA 8211/F36176 BASE COMPONENT

## Section 11. Toxicological information

| Name | Result |
| :--- | :--- |
| Acetic acid, C8-10-branched alkyl esters, C9-rich <br> toluene | ASPIRATION HAZARD - Category 1 <br> ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

## Potential acute health effects

| Eye contact | $:$ Causes serious eye irritation. |
| :--- | :--- |
| Inhalation | $:$ Can cause central nervous system (CNS) depression. May cause drowsiness or |
|  | dizziness. |
| Skin contact | $:$ Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin |
|  | reaction. |
| Ingestion | Can cause central nervous system (CNS) depression. |
| Over-exposure signs/symptoms |  |

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations
Skin contact : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations
Delayed and immediate effects and also chronic effects from short and long term exposure
Conclusion/Summary : There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO 2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness,

## Section 11. Toxicological information

drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

## Short 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.

## 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

Carcinogenicity
Mutagenicity
Reproductive toxicity : May damage fertility or the unborn child.

## 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) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CA 8211/F36176 BASE COMPONENT | 2141.8 | 5239 | N/A | 22.3 | 5.9 |
| barium sulfate | N/A | 2500 | N/A | N/A | N/A |
| butanone | 2737 | 6480 | N/A | N/A | N/A |
| heptan-2-one | 1600 | 10206 | N/A | 16.7 | 1.5 |
| 1,3-Benzenedicarboxylic acid, polymer with | 500 | N/A | N/A | N/A | N/A |
| 2,2-dimethyl-1,3-propanediol, 1,2-ethanediol, |  |  |  |  |  |
| hexanedioic acid and 1,6-hexanediol pentane-2,4-dione | 570 | 790 | N/A | 5.1 | N/A |
| Acetic acid, C8-10-branched alkyl esters, C9-rich | 2500 | N/A | N/A | N/A | N/A |
| 2-methoxy-1-methylethyl acetate | 8532 | N/A | N/A | N/A | N/A |
| carbon black, respirable powder | N/A | 2500 | N/A | N/A | N/A |
| toluene | 5580 | 8390 | N/A | 49 | N/A |
| dibutyltin dilaurate | 2071 | N/A | N/A | N/A | N/A |

Product code CA 8211/F36176 BASE COMPONENT Date of issue 27 July 2020 Version 21 Product name CA 8211/F36176 BASE COMPONENT

## Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :---: | :---: | :---: | :---: |
| heptan-2-one titanium dioxide 2-methoxy-1-methylethyl acetate dibutyltin dilaurate | Acute LC50 131 mg/l Acute LC50 $>100 \mathrm{mg} / \mathrm{I}$ Fresh water Acute LC50 161 mg/l Fresh water <br> EC50 $0.463 \mathrm{mg} / \mathrm{l}$ | Fish <br> Daphnia - Daphnia magna Fish <br> Daphnia | 96 hours 48 hours 96 hours 48 hours |

## Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
| :--- | :--- | :--- | :--- | :--- |
| heptan-2-one | OECD 310 | $69 \%-$ Readily - 28 days | - | - |
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |  |
| heptan-2-one <br> toluene | - | - | Readily <br> Readily |  |

## Bioaccumulative potential

| Product/ingredient name | LogP ow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| butanone | 0.29 | - | low |
| heptan-2-one | 1.98 | - | low |
| pentane-2,4-dione | 0.4 | - | low |
| 2-methoxy-1-methylethyl | 0.56 | - | low |
| acetate | 2.73 | 8.32 | low |
| toluene | 3.12 | - | low |
| dibutyltin dilaurate |  |  |  |

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

## 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

## Section 13. Disposal considerations

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 <br> name | PAINT | PAINT | PAINT |
| Transport hazard class <br> (es) | 3 | 3 | 3 |
| Packing group | III | No. <br> Not applicable. | Not applicable. <br> Not applicable. |
| Environmental hazards <br> Marine pollutant <br> substances <br> Product RQ (Ibs) <br> RQ substances | Nopplicable. <br> (butanone) | Not applicable. <br> Not applicable. |  |

Additional information

| DOT | $:$ Package sizes shipped in quantities less than the product reportable quantity are not subject to the <br>  RQ (reportable quantity) transportation requirements. |
| :--- | :--- |
| IMDG | $:$ None identified. |
| IATA | $:$ None identified. |

Transport in bulk according : Not applicable.
to IMO instruments

## Section 15. Regulatory information

## United States

United States inventory (TSCA 8b) : All components are active or exempted.
United States - TSCA 12(b) - Chemical export notification:

| pentane-2,4-dione <br> United States - TSCA 5(a)2 - Final significant new use rules: <br> pentane-2,4-dione <br> SARA 302/304 | One time notification |  |
| :--- | :--- | :--- |
| SARA 304 RQ | : Not applicable. | Listed |
| Composition/information on ingredients |  |  |

## Section 15. Regulatory information

No products were found.

## SARA 311/312

Classification

```
: FLAMMABLE LIQUIDS - Category 3
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) Category 3
HNOC - Defatting irritant
```

Composition/information on ingredients

| Name | \% | Classification |
| :---: | :---: | :---: |
| butanone | $\geq 10-\leq 14$ | FLAMMABLE LIQUIDS - Category 2 <br> EYE IRRITATION - Category 2A <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) <br> (Narcotic effects) - Category 3 <br> HNOC - Defatting irritant |
| heptan-2-one | $\geq 10-\leq 12$ | FLAMMABLE LIQUIDS - Category 3 <br> ACUTE TOXICITY (oral) - Category 4 <br> ACUTE TOXICITY (inhalation) - Category 4 <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) <br> (Narcotic effects) - Category 3 <br> HNOC - Defatting irritant |
| 1,3-Benzenedicarboxylic acid, polymer with 2,2-dimethyl-1,3-propanediol, 1,2-ethanediol, hexanedioic acid and 1,6-hexanediol | $\geq 5.0-\leq 11$ | COMBUSTIBLE DUSTS <br> ACUTE TOXICITY (oral) - Category 4 <br> EYE IRRITATION - Category 2A |
| titanium dioxide pentane-2,4-dione | $\begin{aligned} & \geq 5.0-\leq 10 \\ & \geq 5.0-\leq 7.1 \end{aligned}$ | CARCINOGENICITY - Category 2 <br> FLAMMABLE LIQUIDS - Category 3 <br> ACUTE TOXICITY (oral) - Category 4 <br> ACUTE TOXICITY (dermal) - Category 3 <br> ACUTE TOXICITY (inhalation) - Category 3 |
| Acetic acid, C8-10-branched alkyl esters, C9-rich | $\geq 1.0-\leq 3.9$ | FLAMMABLE LIQUIDS - Category 4 <br> SKIN IRRITATION - Category 2 <br> EYE IRRITATION - Category 2A <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) <br> (Respiratory tract irritation) - Category 3 <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) <br> (Narcotic effects) - Category 3 <br> ASPIRATION HAZARD - Category 1 |
| carbon black, respirable powder | <1.0 | COMBUSTIBLE DUSTS CARCINOGENICITY - Category 2 |
| toluene | <1.0 | FLAMMABLE LIQUIDS - Category 2 <br> SKIN IRRITATION - Category 2 <br> TOXIC TO REPRODUCTION - Category 2 <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) <br> (Narcotic effects) - Category 3 <br> SPECIFIC TARGET ORGAN TOXICITY (REPEATED <br> EXPOSURE) - Category 2 |

Product code CA 8211/F36176 BASE COMPONENT Date of issue 27 July 2020 Version 21

## Product name CA 8211/F36176 BASE COMPONENT

## Section 15. Regulatory information

| dibutyltin dilaurate | $<1.0$ | ASPIRATION HAZARD - Category 1 <br> HNOC - Defatting irritant <br> SKIN CORROSION - Category 1C <br> SERIOUS EYE DAMAGE - Category 1 <br> SKIN SENSITIZATION - Category 1 <br> GERM CELL MUTAGENICITY - Category 2 <br> TOXIC TO REPRODUCTION - Category 1B <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - <br> Category 1 <br> SPECIFIC TARGET ORGAN TOXICITY (REPEATED <br> EXPOSURE) - Category 1 |
| :--- | :--- | :--- |

## California Prop. 65

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

## Section 16. Other information

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

Health : 2 * Flammability : 3 Physical hazards : 0
(*) - Chronic effects
Caution: HMIS® ratings are based on a $0-4$ rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.
National Fire Protection Association (U.S.A.)
Health : 2 Flammability : 3 Instability : 0
Date of previous issue : 5/17/2020
Organization that prepared : EHS the MSDS
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
$\nabla$ 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.

## Section 1. Identification

| Product name | CA 8200B M\&D ACTIVATOR COMPONENT |
| :---: | :---: |
| Product code | CA 8200B M\&D ACTIVATOR COMPONENT |
| Other means of identification | Not available. |
| 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.; Hardener. |
| Uses advised against | Not applicable. |
| Manufacturer | : PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 8183626711 |
| Emergency telephone | (412) 434-4515 (U.S.) |
| number | (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) |

## Section 2. Hazards identification

## OSHA/HCS status

Classification of the substance or mixture

GHS label elements Hazard pictograms
: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
: FLAMMABLE LIQUIDS - Category 3
ACUTE TOXICITY (inhalation) - Category 4
RESPIRATORY SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.3\% (Dermal), 2.3\% (Inhalation)


Signal word
: Danger

| Product code $C A$ 8200B M\&D ACTIVATOR Date of issue 14 June 2020 Version 17 <br> COMPONENT   |  |  |  |
| :---: | :---: | :---: | :---: |
| Product name CA 8200B M\&D ACTIVATOR COMPONENT |  |  |  |
| Section 2. Hazards identification |  |  |  |
| Hazard statements | : Flammable liquid and vapor. <br> May cause an allergic skin reaction. <br> Harmful if inhaled. <br> May cause allergy or asthma symptoms or breathing difficulties if inhaled. <br> May cause respiratory irritation. |  |  |
| Precautionary statements |  |  |  |
| Prevention | : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapor. |  |  |
| Response | : IF INHALED: Rem POISON CENTER Call a POISON C SKIN: Wash with | o fresh air and keep comfortable you feel unwell. If experiencing ctor. Wash contaminated cloth r. | breathing. Call a piratory symptoms: before reuse. IF ON |
| Storage | Store in a well-ve | Keep container tightly closed. | cool. |
| Disposal | : Dispose of conten international regula | ner in accordance with all local, | onal, national and |
| Supplemental label elements | Moisture-sensitiv cause irritation of damage. Inhalatio limits causes hea death. Skin conta the properties of similar mixtures, respiratory system chest. Sensitized to atmospheric co permanent respir asthma, allergies any process in wh thoroughly after h | peated exposure to high vapor y system and permanent brain rosol concentrations above the siness and nausea and may lead te monomer may lead to allergic components and considering ay cause acute irritation and/or an asthmatic condition, wheezin subsequently show asthmatic sy well below the OEL. Repeated . Persons with a history of skin recurrent respiratory disease sh uct is used. Avoid contact with s s toxic fumes when heated. | entrations may nervous system mmended exposure unconsciousness or g reaction. Based on ological data on sitization of the d tightness of the toms when exposed sure may lead to sitization problems or not be employed in and clothing. Wash |
| Hazards not otherwis classified | Prolonged or repe | may dry skin and cause irritation |  | classified

Section 3. Composition/information on ingredients

## Substance/mixture <br> Product name

: Mixture
: CA 8200B M\&D ACTIVATOR COMPONENT

| Ingredient name | $\%$ | CAS number |
| :--- | :--- | :--- |
| Hexamethylene diisocyanate, oligomers. | $\geq 75-\leq 90$ | $28182-81-2$ |
| heptan-2-one | $\geq 5.0-\leq 10$ | $110-43-0$ |
| n-butyl acetate | $\geq 1.0-\leq 5.0$ | $123-86-4$ |
| Solvent naphtha (petroleum), light aromatic | $\geq 0.10-\leq 2.7$ | $64742-95-6$ |
| $1,2,4-$-trimethylbenzene | $\leq 1.6$ | $95-63-6$ |
| hexamethylene-di-isocyanate | $<1.0$ | $822-06-0$ |

## Product code CA 8200B M\&D ACTIVATOR COMPONENT <br> Product name CA 8200B M\&D ACTIVATOR COMPONENT <br> Section 3. Composition/information on ingredients

Version 17

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

Inhalation

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

## Most important symptoms/effects, acute and delayed

 Potential acute health effects| Eye contact | : No known significant effects or critical hazards. |
| :--- | :--- |
| Inhalation | : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma |
|  | symptoms or breathing difficulties if inhaled. |
| Skin contact | : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin |
|  | reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/symptoms |  |


| Eye contact | $:$ No specific data. <br> Inhalation <br> : Adverse symptoms may include the following: <br> respiratory tract irritation <br> coughing <br> wheezing and breathing difficulties |
| :--- | :--- |
| asthma |  |
| Skin contact | adverse symptoms may include the following: <br> irritation <br> redness <br> dryness <br> cracking |
| Ingestion | No specific data. |

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

# Product code CA 8200B M\&D ACTIVATOR <br> Date of issue 14 June 2020 <br> Version 17 COMPONENT <br> Product name CA 8200B M\&D ACTIVATOR COMPONENT 

## Section 4. First aid measures

Notes to physician
Specific treatments
Protection of first-aiders
: 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.
: 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, $\mathrm{CO}_{2}$, water spray (fog) or foam.
: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

Special protective actions for fire-fighters

Special protective equipment for fire-fighters
: 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: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide

## 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".

# Product code CA 8200B M\&D ACTIVATOR COMPONENT <br> Product name CA 8200B M\&D ACTIVATOR COMPONENT 

## Section 6. Accidental release measures

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

Special provisions
: 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.
: 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.
: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate ( 5 parts) and water ( 95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

## Section 7. Handling and storage

## Precautions for safe handling

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

# Product code CA 8200B M\&D ACTIVATOR COMPONENT <br> Product name CA 8200B M\&D ACTIVATOR COMPONENT 

## Section 7. Handling and storage

Advice on general occupational hygiene
: 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.
: 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, : Do not store above the following temperature: $50^{\circ} \mathrm{C}\left(122^{\circ} \mathrm{F}\right)$. Store in accordance with including any incompatibilities local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Precautions should be taken to minimize exposure to atmospheric humidity or water. $\mathrm{CO}_{2}$ will be formed, which, in closed containers, could result in pressurization.

## Section 8. Exposure controls/personal protection

## Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
| :---: | :---: |
| Hexamethylene diisocyanate, oligomers. | IPEL (PPG). <br> TWA: $0.5 \mathrm{mg} / \mathrm{m}^{3}$ <br> STEL: $1 \mathrm{mg} / \mathrm{m}^{3}$ |
| heptan-2-one | ACGIH TLV (United States, 3/2019). <br> TWA: $233 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> TWA: 50 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: $465 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> TWA: 100 ppm 8 hours. |
| n-butyl acetate | OSHA PEL (United States, 5/2018). <br> TWA: $710 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> TWA: 150 ppm 8 hours. <br> ACGIH TLV (United States, 3/2019). <br> STEL: 150 ppm 15 minutes. <br> TWA: 50 ppm 8 hours. |
| Solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene | None. <br> ACGIH TLV (United States, 3/2019). <br> TWA: $123 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. <br> TWA: 25 ppm 8 hours. |
| hexamethylene-di-isocyanate | ACGIH TLV (United States, 3/2019). TWA: $0.03 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. TWA: 0.005 ppm 8 hours. |


| Product code CA 8200B M\&D ACTIVATOR | Date of issue | 14 June 2020 | Version 17 |
| :--- | ---: | ---: | ---: |
| COMPONENT |  |  |  |
| Product name CA 8200B M\&D ACTIVATOR COMPONENT |  |  |  |

## Section 8. Exposure controls/personal protection



## Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

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

Appropriate engineering controls

## Environmental exposure 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.
: 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 <br> eating, smoking and using the lavatory and at the end of the working period. <br> Appropriate techniques should be used to remove potentially contaminated clothing. <br> Contaminated work clothing should not be allowed out of the workplace. Wash <br> contaminated clothing before reusing. Ensure that eyewash stations and safety <br> showers are close to the workstation location. <br> Eye/face protection <br> Skin protection <br> Hand protection$\quad$: Safety glasses with side shields. |
| :--- | :--- |
| : 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. |  |


| Product code $C A$ 8200B M\&D ACTIVATOR Date of issue 14 June 2020 Version 17 <br>  COMPONENT  |  |  |
| :---: | :---: | :---: |
| Product name CA 8200B M\&D ACTIVATOR COMPONENT |  |  |
| Section 8. Exposure controls/personal protection |  |  |
| Body protection | : Personal protective equipment for the body should be selected performed and the risks involved and should be approved by a handling this product. When there is a risk of ignition from static static protective clothing. For the greatest protection from stati should include anti-static overalls, boots and gloves. | d on the task being ialist before ctricity, wear anticharges, clothing |
| Other skin protection | : Appropriate footwear and any additional skin protection measu based on the task being performed and the risks involved and specialist before handling this product. | hould be selected d be approved by a |
| Respiratory protection | : By spraying: air-fed respirator. By other operations than sprayi areas, air-fed respirators could be replaced by a combination c particulate filter mask. Respirator selection must be based on exposure levels, the hazards of the product and the safe working respirator. | well ventilated al filter and n or anticipated its of the selected |
| Restrictions on use | : Persons with a history of asthma, allergies or chronic or recurre should not be employed in any process in which this product is | spiratory disease |

## Section 9. Physical and chemical properties

| Appearance |  |
| :---: | :---: |
| Physical state | Liquid. |
| Color | Clear. |
| Odor | Not available. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point | Not available. |
| Boiling point | 126.11 to $148.89^{\circ} \mathrm{C}\left(259\right.$ to $\left.300^{\circ} \mathrm{F}\right)$ |
| Flash point | Closed cup: $38^{\circ} \mathrm{C}\left(100.4^{\circ} \mathrm{F}\right)$ |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Flammability (solid, gas) | Not available. |
| Lower and upper explosive (flammable) limits | Not available. |
| Evaporation rate | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Relative density | 1.09 |
| Density ( lbs / gal ) | 9.1 |
| Solubility | Insoluble in the following materials: cold water. |
| Partition coefficient: n octanol/water | Not available. |
| Viscosity | Kinematic ( $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ ): $>0.21 \mathrm{~cm}^{2} / \mathrm{s}(>21 \mathrm{cSt})$ |
| VOC | $206 \mathrm{~g} / \mathrm{l}$ |
| \% Solid. (w/w) | : 81 |

# Product code CA 8200B M\&D ACTIVATOR <br> Version 17 COMPONENT <br> Product name CA 8200B M\&D ACTIVATOR COMPONENT 

## Section 10. Stability and reactivity

Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

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

## Section 11. Toxicological information

Information on toxicological effects
Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :---: | :---: | :---: | :---: | :---: |
| Hexamethylene diisocyanate, oligomers. | LD50 Dermal | Rabbit | >2000 mg/kg | - |
|  | LD50 Oral | Rat - Female | >2500 mg/kg | - |
| heptan-2-one | LC50 Inhalation Vapor | Rat | 16.7 mg/l | 4 hours |
|  | LD50 Dermal | Rabbit | $10.206 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $1.6 \mathrm{~g} / \mathrm{kg}$ | - |
| n-butyl acetate | LC50 Inhalation Vapor | Rat | >21.1 mg/l | 4 hours |
|  | LC50 Inhalation Vapor | Rat | 2000 ppm | 4 hours |
|  | LD50 Dermal LD50 Oral | Rabbit | >17600 mg/kg |  |
| Solvent naphtha (petroleum), light aromatic | LD50 Dermal | Rabbit | $3.48 \mathrm{~g} / \mathrm{kg}$ |  |
|  | LD50 Oral | Rat | $8400 \mathrm{mg} / \mathrm{kg}$ |  |
| 1,2,4-trimethylbenzene | LC50 Inhalation Vapor | Rat | $18000 \mathrm{mg} / \mathrm{m}^{3}$ | 4 hours |
|  | LD50 Oral | Rat | $5 \mathrm{~g} / \mathrm{kg}$ |  |
| hexamethylene-di-isocyanate | LC50 Inhalation Dusts and mists | Rat | $124 \mathrm{mg} / \mathrm{m}^{3}$ | 4 hours |
|  | LC50 Inhalation Vapor | Rat | $151 \mathrm{mg} / \mathrm{m}^{3}$ | 4 hours |
|  | LC50 Inhalation Vapor |  | 22 ppm | 4 hours |
|  | LD50 Dermal LD50 Oral | Rabbit Rat | $0.57 \mathrm{~g} / \mathrm{kg}$ $0.71 \mathrm{~g} / \mathrm{kg}$ | - |

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

## Irritation/Corrosion

## Conclusion/Summary <br> Skin

: There are no data available on the mixture itself.

| Product code CA 8200B M\&D ACTIVATOR | Date of issue 14 June 2020 | Version 17 |
| :--- | ---: | :--- |
| COMPONENT |  |  |
| Product name CA 8200B M\&D ACTIVATOR COMPONENT |  |  |

## Section 11. Toxicological information

Eyes
Respiratory : There are no data available on the mixture itself.
Sensitization
Conclusion/Summary
Skin
: There are no data available on the mixture itself.
: There are no data available on the mixture itself.
Mutagenicity
Conclusion/Summary : There are no data available on the mixture itself.
Carcinogenicity
Conclusion/Summary : There are no data available on the mixture itself.
Reproductive toxicity
Conclusion/Summary : There are no data available on the mixture itself.
Teratogenicity
Conclusion/Summary : There are no data available on the mixture itself.
Specific target organ toxicity (single exposure)

| Name | Category | Route of <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| Hexamethylene diisocyanate, oligomers. | Category 3 | - | Respiratory tract <br> irritation <br> Carcotic effects <br> heptan-2-one <br> n-butyl acetate <br> Solvent naphtha (petroleum), light aromatic 3 <br> Carcotic effects <br> Category 3 <br> Category 3 <br> Respiratory tract <br> irritation <br> Narcotic effects <br> Respiratory tract <br> Category 3 <br> Category 3 <br> Respiratory tract <br> irritation |
| 1,2,4-trimethylbenzene | - | - | - |
| hexamethylene-di-isocyanate | Category 3 | - |  |

## Specific target organ toxicity (repeated exposure)

Not available.
Target organs : Contains material which causes damage to the following organs: brain, central nervous system (CNS).
Contains material which may cause damage to the following organs: blood, lungs, peripheral nervous system, upper respiratory tract, skin, eye, lens or cornea.

## Aspiration hazard

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

## Information on the likely routes of exposure

## Potential acute health effects

Eye contact : No known significant effects or critical hazards.

| Product code CA 8200B M\&D ACTIVATOR | Date of issue 14 June 2020 | Version 17 |
| :--- | ---: | :--- |
| COMPONENT |  |  |
| Product name CA 8200B M\&D ACTIVATOR COMPONENT |  |  |

## Section 11. Toxicological information

Inhalation
Skin contact
Ingestion
Over-exposure signs/sympto

| Eye contact |
| :--- |
| Inhalation |

: Harmful if 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 reaction.
Ingestion : No known significant effects or critical hazards.
Over-exposure signs/symptoms
Inhalation

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. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

## Short 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.

## 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/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

| Product code | CA 8200B M\&D ACTIVATOR COMPONENT | Date of issue 14 June 2020 | Version 17 |
| :---: | :---: | :---: | :---: |
| Product name | CA 8200B M\&D ACTIVATOR | ENT |  |

## Section 11. Toxicological information

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

Numerical measures of toxicity

## Acute toxicity estimates

| Product/ingredient name | Oral (mg/ <br> $\mathrm{kg})$ | Dermal <br> $(\mathrm{mg} / \mathrm{kg})$ | Inhalation <br> (gases) <br> (ppm) | Inhalation <br> (vapors) <br> (mg/l) | Inhalation <br> (dusts and <br> mists) (mg/ <br> l) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| CA 8200B M\&D ACTIVATOR COMPONENT | 2569.8 | 3024.3 | N/A | 12.4 | 1.6 |
| Hexamethylene diisocyanate, oligomers. | 2500 | 2500 | N/A | 11 | 1.5 |
| heptan-2-20ne | 1600 | 10206 | N/A | 16.7 | 1.5 |
| n-butyl acetate | 10768 | N/A | N/A | N/A | N/A |
| Solvent naphtha (petroleum), light aromatic | 8400 | 3480 | N/A | N/A | N/A |
| $1,2,4-$-trimethylbenzene |  |  |  |  |  |
| hexamethylene-di-isocyanate | 5000 | N/A | N/A | 18 |  |
| N/A | 0.151 | 1.5 |  |  |  |
| 0.124 |  |  |  |  |  |

## Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
| :---: | :---: | :---: | :---: |
| Hexamethylene diisocyanate, oligomers. <br> heptan-2-one <br> n-butyl acetate <br> Solvent naphtha (petroleum), light aromatic | Acute EC50 > $1000 \mathrm{mg} / \mathrm{l}$ <br> Acute EC50 $>100 \mathrm{mg} / \mathrm{l}$ <br> Acute LC50 $>100 \mathrm{mg} / \mathrm{l}$ <br> Acute LC50 131 mg/l <br> Acute LC50 18 mg/l <br> Acute LC50 $8.2 \mathrm{mg} / \mathrm{l}$ | Algae - scenedesmus subspicatus <br> Daphnia - daphnia magna <br> Fish - Danio rerio (zebra fish) <br> Fish <br> Fish <br> Fish | 72 hours <br> 48 hours 96 hours 96 hours 96 hours 96 hours |

## Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
| :--- | :--- | :--- | :--- | :--- |
| heptan-2-one <br> n-butyl acetate | OECD 310 <br> TEPA and OECD <br> 301D | $69 \%$ - Readily - 28 days <br> $83 \%-R e a d i l y-28$ days | - | - |
| Product/ingredient name | Aquatic half-life | Photolysis | - |  |
| Hexamethylene diisocyanate, <br> oligomers. <br> heptan-2-one <br> n-butyl acetate | - | - | Biodegradability |  |

# Product code CA 8200B M\&D ACTIVATOR 

## Section 12. Ecological information

## Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| Hexamethylene diisocyanate, | - | 3.2 | low |
| oligomers. | 1.98 |  | low |
| heptan-2-one | 1.78 | - | low |
| n-butyl acetate | 3.63 | 120.23 | low |
| $1,2,4$-trimethylbenzene | - | low |  |
| hexamethylene-di-isocyanate | 1.08 |  |  |

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

## Section 13. 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 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 <br> name | PAINT | PAINT | PAINT |
| Transport hazard class <br> (es) | 3 | 3 | 3 |
| Packing group | III | III | No. |
| Environmental hazards | No. | No. |  |


| Product code CA 8200B M\&D ACTIVATOR | Date of issue | 14 June 2020 |
| :--- | ---: | :--- | Version 17

14. Transport information

| Marine pollutant <br> substances | Not applicable. | Not applicable. | Not applicable. |
| :--- | :--- | :--- | :--- |

Additional information

| DOT | : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. <br>  <br>  <br>  <br>  <br> Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as |
| :--- | :--- |
| hMDG | $:$None identified. |
| IATA | $:$ None identified. |

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

Transport in bulk according : Not applicable.
to IMO instruments

## Section 15. Regulatory information

## United States

United States inventory (TSCA 8b) : All components are active or exempted.
SARA 302/304
SARA 304 RQ
: Not applicable.
Composition/information on ingredients
No products were found.
SARA 311/312
Classification
: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 RESPIRATORY SENSITIZATION - Category 1
SKIN SENSITIZATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
HNOC - Defatting irritant
Composition/information on ingredients

| Name | $\%$ | Classification |
| :--- | :--- | :--- |
| Hexamethylene diisocyanate, | $\geq 75-\leq 90$ | COMBUSTIBLE DUSTS <br> oligomers. |
| ACUTE TOXICITY (inhalation) - Category 4 |  |  |
| SKIN SENSITIATION - Category 1A |  |  |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) |  |  |
| (Respiratory tract irritation) - Category 3 |  |  |
| heptan-2-one | $\geq 5.0-\leq 10$ | FLAMMABLE LIQUIDS - Category 3 <br> ACUTE TOXICITY (oral) - Category 4 <br> ACUTE TOXICITY (inhalation) - Category 4 <br> SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) <br> (Narcotic effects) - Category 3 |


| Product code CA 8200B M\&D ACTIVATOR | Date of issue 14 June 2020 | Version 17 |
| :--- | ---: | ---: |
| COMPONENT |  |  |
| Product name CA 8200B M\&D ACTIVATOR COMPONENT |  |  |

## Section 15. Regulatory information



SARA 313

Supplier notification $:$\begin{tabular}{l}
Chemical name <br>
1,2,4-trimethylbenzene

$\quad$

CAS number <br>
$95-63-6$
\end{tabular}$\quad \frac{\text { Concentration }}{0.5-1.5}$

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

## Section 16. Other information

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

Health : 3 * Flammability : 2 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. $\mathrm{HMIS} ®$ 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 : 2 Instability : 0

| Product code CA 8200B M\&D ACTIVATOR | Date of issue | 14 June 2020 |
| :--- | :--- | :--- | Version 17

## Section 16. Other information

Date of previous issue : 12/3/2019
Organization that prepared : EHS
the MSDS
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
$\mathrm{IBC}=$ 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
$\nabla$ 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.

