

# SAFETY DATA SHEET



Date of issue/Date of revision 21 June 2021

Version 25

## Section 1. Identification

**Product name** : 515K011 BASE COMPONENT  
**Product code** : 515K011 BASE 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.  
**Uses advised against** : Not applicable.

**Manufacturer** : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711

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

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
SERIOUS EYE DAMAGE - 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 2  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 32.7% (oral), 55.9% (dermal), 55.9% (inhalation)

## Section 2. Hazards identification

This product contains TiO<sub>2</sub> which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO<sub>2</sub> is utilized as a raw material in a liquid coating formulation. In this case, the TiO<sub>2</sub> particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO<sub>2</sub> 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

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: Highly flammable liquid and vapor.  
 Causes skin irritation.  
 Causes serious eye damage.  
 Harmful if inhaled.  
 May cause respiratory irritation.  
 May cause drowsiness or dizziness.  
 May cause cancer.  
 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, 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. Do not breathe vapor. Wash thoroughly after handling.

#### Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation 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. Immediately call a POISON CENTER or doctor.

#### Storage

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### Disposal

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

#### 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. 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

## Section 2. Hazards identification

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** : 515K011 BASE COMPONENT

| Ingredient name                                     | %           | CAS number |
|---|-------------|------------|
| Talc, not containing asbestiform fibers             | ≥10 - ≤20   | 14807-96-6 |
| n-butyl acetate                                     | ≥10 - ≤20   | 123-86-4   |
| antimony nickel titanium oxide yellow               | ≥10 - ≤20   | 8007-18-9  |
| 4-methylpentan-2-one                                | ≥5.0 - ≤10  | 108-10-1   |
| xylene  | ≥5.0 - ≤10  | 1330-20-7  |
| calcium chromate                                    | ≥1.0 - ≤5.0 | 13765-19-0 |
| butan-1-ol  | ≥1.0 - ≤4.5 | 71-36-3    |
| titanium dioxide                                    | ≥1.0 - ≤5.0 | 13463-67-7 |
| butanone  | ≥1.0 - ≤4.2 | 78-93-3    |
| ethylbenzene  | ≤1.9        | 100-41-4   |
| crystalline silica, respirable powder (<10 microns) | <1.0        | 14808-60-7 |

SUB codes represent substances without registered CAS Numbers.

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

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

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

## Section 4. First aid measures

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

### Description of necessary first aid measures

- Eye contact** : 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.
- 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** : Causes serious eye damage.

## Section 4. First aid measures

**Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact** : Causes skin irritation. Defatting to the skin.

**Ingestion** : 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  
dizziness/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)

## Section 5. Fire-fighting measures

### Extinguishing media

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

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : 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.

## Section 5. Fire-fighting measures

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- 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. 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 specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

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

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : Ingestion of product or cured coating may be harmful. 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   |
|---|---|
| Talc, not containing asbestiform fibers | <b>ACGIH TLV (United States, 3/2020).</b><br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable   |
| n-butyl acetate                         | <b>OSHA PEL Z3 (United States).</b><br>TWA: 2 mg/m <sup>3</sup><br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 710 mg/m <sup>3</sup> 8 hours.<br>TWA: 150 ppm 8 hours. |
| antimony nickel titanium oxide yellow   | <b>ACGIH TLV (United States, 3/2020).</b><br>STEL: 150 ppm 15 minutes.<br>TWA: 50 ppm 8 hours.<br><b>OSHA PEL (United States).</b><br>TWA: 0.5 mg/m <sup>3</sup> , (as Sb)  |

## Section 8. Exposure controls/personal protection

|                      |  |
|----------------------|--|
|                      | <p>TWA: 0.5 mg/m<sup>3</sup>, (as Sb) Form: Total dust<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> TWA: 0.2 mg/m<sup>3</sup>, (as Ni) 8 hours. Form:<br/> Inhalable fraction<br/> <b>ACGIH TLV (United States).</b><br/> TWA: 0.2 mg/m<sup>3</sup> Form: Total dust<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 1 mg/m<sup>3</sup>, (as Ni) 8 hours.<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> STEL: 75 ppm 15 minutes.<br/> TWA: 20 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 410 mg/m<sup>3</sup> 8 hours.<br/> TWA: 100 ppm 8 hours.<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> STEL: 651 mg/m<sup>3</sup> 15 minutes.<br/> STEL: 150 ppm 15 minutes.<br/> TWA: 434 mg/m<sup>3</sup> 8 hours.<br/> TWA: 100 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 435 mg/m<sup>3</sup> 8 hours.<br/> TWA: 100 ppm 8 hours.<br/> <b>ACGIH TLV (United States).</b><br/> TWA: 0.05 mg/m<sup>3</sup> Form: Total dust<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> TWA: 0.001 mg/m<sup>3</sup>, (measured as Cr) 8<br/> hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 0.005 mg/m<sup>3</sup>, (as Cr) 8 hours.<br/> <b>OSHA PEL Z2 (United States, 2/2013).</b><br/> CEIL: 1 mg/10m<sup>3</sup><br/> <b>OSHA PEL (United States).</b><br/> TWA: 5 mg/m<sup>3</sup><br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> TWA: 20 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 300 mg/m<sup>3</sup> 8 hours.<br/> TWA: 100 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> TWA: 10 mg/m<sup>3</sup> 8 hours.<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> STEL: 885 mg/m<sup>3</sup> 15 minutes.<br/> STEL: 300 ppm 15 minutes.<br/> TWA: 590 mg/m<sup>3</sup> 8 hours.<br/> TWA: 200 ppm 8 hours.<br/> <b>OSHA PEL (United States, 5/2018).</b><br/> TWA: 590 mg/m<sup>3</sup> 8 hours.<br/> TWA: 200 ppm 8 hours.<br/> <b>ACGIH TLV (United States, 3/2020).</b><br/> TWA: 20 ppm 8 hours.</p> |
| 4-methylpentan-2-one |  |
| xylene               |  |
| calcium chromate     |  |
| butan-1-ol           |  |
| titanium dioxide     |  |
| butanone             |  |
| ethylbenzene         |  |

## Section 8. Exposure controls/personal protection

crystalline silica, respirable powder (<10 microns)

### OSHA PEL (United States, 5/2018).

TWA: 435 mg/m<sup>3</sup> 8 hours.

TWA: 100 ppm 8 hours.

### ACGIH TLV (United States, 3/2020).

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> / (%SiO<sub>2</sub>+2) 8 hours. Form:

Respirable

TWA: 250 mppcf / (%SiO<sub>2</sub>+5) 8 hours. Form:

Respirable

### OSHA PEL (United States, 5/2018).

TWA: 50 µg/m<sup>3</sup> 8 hours. Form: Respirable dust

#### Key to abbreviations

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

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

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

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Chemical splash goggles and face shield.

**Skin protection**



## Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : For prolonged or repeated handling, use the following type of gloves:  
  
Recommended: polyvinyl alcohol (PVA), neoprene, Viton®, butyl rubber  
Not recommended: nitrile rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : 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.  
The respiratory protection shall be in accordance to 29 CFR 1910.134.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Green.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : >37.78°C (>100°F)
- Flash point** : Closed cup: 15.56°C (60°F)
- 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** : 1.31
- Density ( lbs / gal )** : 10.93

## Section 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Solubility</b>                             | : Insoluble in the following materials: cold water.          |
| <b>Partition coefficient: n-octanol/water</b> | : Not applicable.  |
| <b>Viscosity</b>                              | : Kinematic (40°C (104°F)): >21 mm <sup>2</sup> /s (>21 cSt) |
| <b>VOC</b>                                    | : 509 g/l  |

## Section 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                 | : The product is stable.  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Conditions to avoid</b>                | : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.                    |
| <b>Incompatible materials</b>             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.                              |
| <b>Hazardous decomposition products</b>   | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                          | Species | Dose                    | Exposure |
|-------------------------|---------------------------------|---------|-------------------------|----------|
| n-butyl acetate         | LC50 Inhalation Vapor           | Rat     | >21.1 mg/l              | 4 hours  |
|                         | LC50 Inhalation Vapor           | Rat     | 2000 ppm                | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | >17600 mg/kg            | -        |
|                         | LD50 Oral                       | Rat     | 10.768 g/kg             | -        |
| 4-methylpentan-2-one    | LC50 Inhalation Vapor           | Rat     | 12.3 mg/l               | 4 hours  |
|                         | LD50 Dermal                     | Rabbit  | >5000 mg/kg             | -        |
|                         | LD50 Oral                       | Rat     | 2.08 g/kg               | -        |
| xylene                  | LD50 Dermal                     | Rabbit  | 1.7 g/kg                | -        |
|                         | LD50 Oral                       | Rat     | 4.3 g/kg                | -        |
| calcium chromate        | LD50 Oral                       | Rat     | 327 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             | -        |
| butanone                | LD50 Dermal                     | Rabbit  | 6480 mg/kg              | -        |
|                         | LD50 Oral                       | Rat     | 2737 mg/kg              | -        |

**Section 11. Toxicological information**

|              |                       |        |           |         |
|--------------|-----------------------|--------|-----------|---------|
| 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** : There are no data available on the mixture itself.

**Irritation/Corrosion**

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene                  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |

**Conclusion/Summary**

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

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

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

**Sensitization****Conclusion/Summary**

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

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

**Mutagenicity**

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

**Carcinogenicity**

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

**Classification**

| Product/ingredient name                             | OSHA | IARC | NTP                             |
|---|------|------|---------------------------------|
| 4-methylpentan-2-one                                | -    | 2B   | -                               |
| xylene  | -    | 3    | -                               |
| calcium chromate                                    | +    | 1    | Known to be a human carcinogen. |
| titanium dioxide                                    | -    | 2B   | -                               |
| ethylbenzene  | -    | 2B   | -                               |
| crystalline silica, respirable powder (<10 microns) | -    | 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.

**Specific target organ toxicity (single exposure)**

## Section 11. Toxicological information

| Name                                    | Category                 | Route of exposure | Target organs                        |
|---|--------------------------|-------------------|--------------------------------------|
| Talc, not containing asbestiform fibers | Category 3               | -                 | Respiratory tract irritation         |
| n-butyl acetate                         | Category 3               | -                 | Narcotic effects                     |
| 4-methylpentan-2-one                    | Category 3               | -                 | Respiratory tract irritation         |
| xylene                                  | Category 3               | -                 | Respiratory tract irritation         |
| butan-1-ol                              | Category 3               | -                 | Respiratory tract irritation         |
| butanone                                | Category 3<br>Category 3 | -                 | Narcotic effects<br>Narcotic effects |

### Specific target organ toxicity (repeated exposure)

| Name  | Category   | Route of exposure | Target organs  |
|---|------------|-------------------|----------------|
| calcium chromate                                    | Category 2 | -                 | -              |
| ethylbenzene  | Category 2 | -                 | hearing organs |
| crystalline silica, respirable powder (<10 microns) | Category 1 | inhalation        | -              |

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

### Aspiration hazard

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

### Information on the likely routes of exposure

#### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

## Section 11. Toxicological information

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

respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/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

### 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 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 TiO<sub>2</sub> which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO<sub>2</sub> is utilized as a raw material in a liquid coating formulation. In this case, the TiO<sub>2</sub> particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO<sub>2</sub> 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, 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 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 effects** : There are no data available on the mixture itself.

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

### Potential chronic health effects

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

## Section 11. Toxicological information

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

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

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| 515K011 BASE COMPONENT  | 2676.5       | 7647.2         | N/A                      | 29                         | 3.6                                 |
| n-butyl acetate         | 10768        | N/A            | N/A                      | N/A                        | N/A                                 |
| 4-methylpentan-2-one    | 2080         | N/A            | N/A                      | 12.3                       | 1.5                                 |
| xylene                  | 4300         | 1700           | N/A                      | 11                         | 1.5                                 |
| calcium chromate        | 327          | N/A            | N/A                      | N/A                        | N/A                                 |
| butan-1-ol              | 790          | 3400           | N/A                      | 24                         | N/A                                 |
| butanone                | 2737         | 6480           | N/A                      | N/A                        | N/A                                 |
| ethylbenzene            | 3500         | 17800          | N/A                      | 17.8                       | 1.5                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                                 | Species                      | Exposure |
|-------------------------|--|------------------------------|----------|
| n-butyl acetate         | Acute LC50 18 mg/l                     | Fish                         | 96 hours |
| 4-methylpentan-2-one    | Acute LC50 >179 mg/l                   | Fish                         | 96 hours |
| butan-1-ol              | Acute LC50 1376 mg/l                   | Fish                         | 96 hours |
| titanium dioxide        | Acute LC50 >100 mg/l Fresh water       | Daphnia - Daphnia magna      | 48 hours |
| ethylbenzene            | Acute EC50 1.8 mg/l Fresh water        | Daphnia                      | 48 hours |
|                         | Acute LC50 150 to 200 mg/l Fresh water | Fish                         | 96 hours |
|                         | Chronic NOEC 1 mg/l Fresh water        | Daphnia - Ceriodaphnia dubia | -        |

### Persistence and degradability

| Product/ingredient name | Test               | Result                   | Dose | Inoculum |
|-------------------------|--------------------|--------------------------|------|----------|
| n-butyl acetate         | TEPA and OECD 301D | 83 % - Readily - 28 days | -    | -        |
| 4-methylpentan-2-one    | OECD 301F          | 83 % - Readily - 28 days | -    | -        |
| ethylbenzene            | -                  | 79 % - Readily - 10 days | -    | -        |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| n-butyl acetate         | -                 | -          | Readily          |
| 4-methylpentan-2-one    | -                 | -          | Readily          |
| xylene                  | -                 | -          | Readily          |
| ethylbenzene            | -                 | -          | Readily          |

### Bioaccumulative potential

## Section 12. Ecological information

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| n-butyl acetate         | 2.3                | -           | low       |
| 4-methylpentan-2-one    | 1.9                | -           | low       |
| xylene                  | 3.12               | 7.4 to 18.5 | low       |
| butan-1-ol              | 1                  | -           | low       |
| butanone                | 0.3                | -           | low       |
| ethylbenzene            | 3.6                | 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.

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. | (calcium chromate) | Not applicable.  |

## 14. Transport information

|                  |                            |                 |                 |
|------------------|----------------------------|-----------------|-----------------|
| Product RQ (lbs) | 231.66                     | Not applicable. | Not applicable. |
| RQ substances    | (calcium chromate, 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.

**Transport in bulk according to IMO instruments** : Not applicable.

## 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:**

calcium chromate

Annual notification

**TSCA 6 final risk management:** calcium chromate

### 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 (inhalation) - Category 4
- SKIN IRRITATION - Category 2
- SERIOUS EYE DAMAGE - 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 2
- HNOC - Defatting irritant

### Composition/information on ingredients



## Section 15. Regulatory information

| Name  | %           | Classification   |
|---|-------------|--|
| Talc, not containing asbestiform fibers             | ≥10 - ≤20   | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3   |
| n-butyl acetate                                     | ≥10 - ≤20   | FLAMMABLE LIQUIDS - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>HNOC - Defatting irritant  |
| antimony nickel titanium oxide yellow               | ≥10 - ≤20   | EYE IRRITATION - Category 2A   |
| 4-methylpentan-2-one                                | ≥5.0 - ≤10  | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>HNOC - Defatting irritant  |
| xylene  | ≥5.0 - ≤10  | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>ASPIRATION HAZARD - Category 1                                     |
| calcium chromate                                    | ≥1.0 - ≤5.0 | ACUTE TOXICITY (oral) - Category 4<br>CARCINOGENICITY - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2   |
| butan-1-ol  | ≥1.0 - ≤4.5 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (oral) - Category 4<br>SKIN IRRITATION - Category 2<br>SERIOUS EYE DAMAGE - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>HNOC - Defatting irritant |
| titanium dioxide                                    | ≥1.0 - ≤5.0 | CARCINOGENICITY - Category 2   |
| butanone  | ≥1.0 - ≤4.2 | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>HNOC - Defatting irritant  |
| ethylbenzene  | ≤1.9        | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1<br>HNOC - Defatting irritant   |
| crystalline silica, respirable powder (<10 microns) | <1.0        | CARCINOGENICITY - Category 1A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED  |

## Section 15. Regulatory information

EXPOSURE) - Category 1

### SARA 313

| Supplier notification | Chemical name                         | CAS number | Concentration |
|-----------------------|---------------------------------------|------------|---------------|
|                       | antimony nickel titanium oxide yellow | 8007-18-9  | 7 - 13        |
|                       | 4-methylpentan-2-one                  | 108-10-1   | 5 - 10        |
|                       | xylene                                | 1330-20-7  | 5 - 10        |
|                       | calcium chromate                      | 13765-19-0 | 1 - 5         |
|                       | butan-1-ol                            | 71-36-3    | 1 - 5         |
|                       | ethylbenzene                          | 100-41-4   | 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.

### California Prop. 65

**⚠ WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Section 16. Other information

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

Health : 3 \* 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 : 3 Flammability : 3 Instability : 0

Date of previous issue : 6/1/2021

Organization that prepared the SDS : EHS

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = 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

# SAFETY DATA SHEET



Date of issue/Date of revision 21 August 2021

Version 20.02

## Section 1. Identification

**Product name** : 910-012 ACTIVATOR COMPNT  
**Product code** : 910-012 ACTIVATOR COMPNT  
**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** : Hardener.  
**Uses advised against** : Not applicable.

**Manufacturer** : PPG Aerospace PRC-DeSoto  
12780 San Fernando Road  
Sylmar, CA 91342  
Phone: 818 362 6711

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

## Section 2. Hazards identification

**OSHA/HCS status** : 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  
ACUTE TOXICITY (inhalation) - Category 4  
SKIN IRRITATION - Category 2  
SERIOUS EYE DAMAGE - Category 1  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 2  
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 2  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3% (dermal), 1.9% (inhalation)

### GHS label elements

## Section 2. Hazards identification

**Hazard pictograms**

:

**Signal word**

: Danger

**Hazard statements**

: Highly flammable liquid and vapor.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Harmful if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
Suspected of damaging fertility or the unborn child.  
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, 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. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response**

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. Immediately call a POISON CENTER or doctor.

**Storage**

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal**

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

**Supplemental label elements**

: Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. 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 hazard, a skin sensitizer and a respiratory sensitizer. 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 : 910-012 ACTIVATOR COMPNT

| Ingredient name                              | %           | CAS number |
|--|-------------|------------|
| xylene                                       | ≥20 - ≤46   | 1330-20-7  |
| Isopropyl alcohol                            | ≥20 - ≤50   | 67-63-0    |
| butanone                                     | ≥20 - ≤47   | 78-93-3    |
| ethylbenzene                                 | ≥5.0 - ≤8.2 | 100-41-4   |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | ≥1.0 - ≤3.2 | 1760-24-3  |
| 2,4,6-tris(dimethylaminomethyl)phenol        | ≥1.0 - ≤3.5 | 90-72-2    |
| toluene                                      | <1.0        | 108-88-3   |

SUB codes represent substances without registered CAS Numbers.

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

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

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.
- 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** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin. 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  
watering  
redness

## Section 4. First aid measures

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
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:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### 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** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : 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.

## Section 5. Fire-fighting measures

### 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 hazard 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 specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### Environmental precautions

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

### Methods and materials for containment and cleaning up

#### Small spill

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

#### Large spill

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

## 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. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Special precautions** : 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   |
|-------------------|---|
| xylene            | <b>ACGIH TLV (United States, 3/2020).</b><br>STEL: 651 mg/m <sup>3</sup> 15 minutes.<br>STEL: 150 ppm 15 minutes.<br>TWA: 434 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 435 mg/m <sup>3</sup> 8 hours.<br>TWA: 100 ppm 8 hours. |
| Isopropyl alcohol | <b>ACGIH TLV (United States, 3/2020).</b><br>STEL: 400 ppm 15 minutes.<br>TWA: 200 ppm 8 hours.   |



## Section 8. Exposure controls/personal protection

|  |   |
|--|---|
| butanone   | <p><b>OSHA PEL (United States, 5/2018).</b><br/>TWA: 980 mg/m<sup>3</sup> 8 hours.<br/>TWA: 400 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2020).</b><br/>STEL: 885 mg/m<sup>3</sup> 15 minutes.<br/>STEL: 300 ppm 15 minutes.<br/>TWA: 590 mg/m<sup>3</sup> 8 hours.<br/>TWA: 200 ppm 8 hours.</p> |
| ethylbenzene   | <p><b>OSHA PEL (United States, 5/2018).</b><br/>TWA: 590 mg/m<sup>3</sup> 8 hours.<br/>TWA: 200 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2020).</b><br/>TWA: 20 ppm 8 hours.</p> <p><b>OSHA PEL (United States, 5/2018).</b><br/>TWA: 435 mg/m<sup>3</sup> 8 hours.<br/>TWA: 100 ppm 8 hours.</p> |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>2,4,6-tris(dimethylaminomethyl)phenol<br>toluene | <p>None.</p> <p>None.</p> <p><b>OSHA PEL Z2 (United States, 2/2013).</b><br/>AMP: 500 ppm 10 minutes.<br/>CEIL: 300 ppm<br/>TWA: 200 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2020).</b><br/>TWA: 20 ppm 8 hours.</p>   |

### Key to abbreviations

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

### Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : 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

## Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Chemical splash goggles and face shield.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Gloves** : butyl rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Clear.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Not available.
- Boiling point** : 79.44 to 316.11°C (175 to 601°F)
- Flash point** : Closed cup: -5.56°C (22°F)
- 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.

## Section 9. Physical and chemical properties

|  |  |
|--|--|
| Vapor pressure                         | : Not available.   |
| Vapor density                          | : Not available.   |
| Relative density                       | : 0.84   |
| Density ( lbs / gal )                  | : 7.01   |
| Solubility                             | : Insoluble in the following materials: cold water.          |
| Partition coefficient: n-octanol/water | : Not applicable.  |
| Viscosity                              | : Kinematic (40°C (104°F)): >21 mm <sup>2</sup> /s (>21 cSt) |
| VOC                                    | : 792 g/l  |
| % Solid. (w/w)                         | : 5.88   |

## 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   | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides Formaldehyde. metal oxide/oxides |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                       | Result                | Species | Dose                    | Exposure |
|---|-----------------------|---------|-------------------------|----------|
| xylene  | LD50 Dermal           | Rabbit  | 1.7 g/kg                | -        |
|   | LD50 Oral             | Rat     | 4.3 g/kg                | -        |
| Isopropyl alcohol                             | LC50 Inhalation Vapor | Rat     | 72600 mg/m <sup>3</sup> | 4 hours  |
|   | LD50 Dermal           | Rabbit  | 12800 mg/kg             | -        |
| butanone                                      | LD50 Oral             | Rat     | 5045 mg/kg              | -        |
|   | LD50 Dermal           | Rabbit  | 6480 mg/kg              | -        |
| ethylbenzene                                  | LD50 Oral             | Rat     | 2737 mg/kg              | -        |
|   | LC50 Inhalation Vapor | Rat     | 17.8 mg/l               | 4 hours  |
|   | LD50 Dermal           | Rabbit  | 17.8 g/kg               | -        |
| N-(3-(trimethoxysilyl)propyl) ethylenediamine | LD50 Oral             | Rat     | 3.5 g/kg                | -        |
|   | LD50 Oral             | Rat     | 2413 mg/kg              | -        |
| 2,4,6-tris                                    | LD50 Dermal           | Rabbit  | 1.28 g/kg               | -        |

## Section 11. Toxicological information

|                             |                       |        |                     |         |
|-----------------------------|-----------------------|--------|---------------------|---------|
| (dimethylaminomethyl)phenol | LD50 Dermal           | Rat    | 1280 mg/kg          | -       |
|                             | LD50 Oral             | Rat    | 1200 mg/kg          | -       |
| toluene                     | LC50 Inhalation Vapor | Rat    | 49 g/m <sup>3</sup> | 4 hours |
|                             | LD50 Dermal           | Rabbit | 8.39 g/kg           | -       |
|                             | LD50 Oral             | Rat    | 5580 mg/kg          | -       |

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

### Irritation/Corrosion

| Product/ingredient name                   | Result                   | Species | Score | Exposure        | Observation |
|---|--------------------------|---------|-------|-----------------|-------------|
| xylene                                    | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | Skin - Visible necrosis  | Rabbit  | -     | 4 hours         | 7 days      |

### Conclusion/Summary

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

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

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

### Sensitization

| Product/ingredient name                   | Route of exposure | Species    | Result      |
|---|-------------------|------------|-------------|
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | skin              | Guinea pig | Sensitizing |

### Conclusion/Summary

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

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

### Mutagenicity

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

### Carcinogenicity

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

### Classification

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| xylene                  | -    | 3    | -   |
| Isopropyl alcohol       | -    | 3    | -   |
| ethylbenzene            | -    | 2B   | -   |
| toluene                 | -    | 3    | -   |

**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

## Section 11. Toxicological information

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

### Specific target organ toxicity (single exposure)

| Name              | Category   | Route of exposure | Target organs                |
|-------------------|------------|-------------------|------------------------------|
| xylene            | Category 3 | -                 | Respiratory tract irritation |
| Isopropyl alcohol | Category 3 | -                 | Narcotic effects             |
| butanone          | Category 3 | -                 | Narcotic effects             |
| toluene           | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Name         | Category   | Route of exposure | Target organs  |
|--------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | -                 | hearing organs |
| toluene      | Category 2 | -                 | -              |

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

### Aspiration hazard

| Name         | Result                         |
|--------------|--------------------------------|
| xylene       | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene      | ASPIRATION HAZARD - Category 1 |

### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.  
**Skin contact** : Causes skin irritation. Defatting to the skin. 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  
 watering  
 redness

**Inhalation** : Adverse symptoms may include the following:  
 respiratory tract irritation  
 coughing  
 nausea or vomiting  
 headache  
 drowsiness/fatigue  
 dizziness/vertigo  
 unconsciousness  
 reduced fetal weight  
 increase in fetal deaths

## Section 11. Toxicological information

**Skin contact** : skeletal malformations  
: Adverse symptoms may include the following:  
pain or irritation  
redness  
dryness  
cracking  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:  
stomach pains  
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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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 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 effects** : There are no data available on the mixture itself.

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

### Potential chronic health effects

**General** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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

## Section 11. Toxicological information

**Reproductive toxicity** : Suspected of damaging 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/l) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| 910-012 ACTIVATOR COMPNT                     | 4461.6       | 3822.4         | N/A                      | 22.2                       | 2.9                                 |
| xylene                                       | 4300         | 1700           | N/A                      | 11                         | 1.5                                 |
| Isopropyl alcohol                            | 5045         | 12800          | N/A                      | 72.6                       | N/A                                 |
| butanone                                     | 2737         | 6480           | N/A                      | N/A                        | N/A                                 |
| ethylbenzene                                 | 3500         | 17800          | N/A                      | 17.8                       | 1.5                                 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | 2413         | N/A            | N/A                      | 11                         | 1.5                                 |
| 2,4,6-tris(dimethylaminomethyl)phenol        | 1200         | 1280           | N/A                      | N/A                        | N/A                                 |
| toluene                                      | 5580         | 8390           | N/A                      | 49                         | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                   | Result                            | Species                      | Exposure |
|---|-----------------------------------|------------------------------|----------|
| Isopropyl alcohol                         | Acute EC50 10100 mg/l Fresh water | Daphnia - Daphnia magna      | 48 hours |
| ethylbenzene                              | Acute EC50 1.8 mg/l Fresh water   | Daphnia                      | 48 hours |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | Chronic NOEC 1 mg/l Fresh water   | Daphnia - Ceriodaphnia dubia | -        |
|   | Acute LC50 175 mg/l               | Fish                         | 96 hours |

### Persistence and degradability

| Product/ingredient name | Test | Result                   | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| ethylbenzene            | -    | 79 % - Readily - 10 days | -    | -        |

  

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene                  | -                 | -          | Readily          |
| ethylbenzene            | -                 | -          | Readily          |
| toluene                 | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name                   | LogP <sub>ow</sub> | BCF         | Potential |
|---|--------------------|-------------|-----------|
| xylene                                    | 3.12               | 7.4 to 18.5 | low       |
| Isopropyl alcohol                         | 0.05               | -           | low       |
| butanone                                  | 0.3                | -           | low       |
| ethylbenzene                              | 3.6                | 79.43       | low       |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol | 0.219              | -           | low       |
| toluene                                   | 2.73               | 8.32        | low       |

## Section 12. Ecological information

### Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

## Section 13. Disposal considerations

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

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

## 14. Transport information

|                             | DOT                    | IMDG            | 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.                    | No.             | No.             |
| Marine pollutant substances | Not applicable.        | Not applicable. | Not applicable. |
| Product RQ (lbs)            | 238.08                 | Not applicable. | Not applicable. |
| RQ substances               | (xylene, ethylbenzene) | Not applicable. | Not applicable. |

### Additional information

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

**IMDG** : None identified.

**IATA** : None identified.



## 14. Transport information

**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 to IMO instruments** : Not applicable.

## 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 2  
 ACUTE TOXICITY (inhalation) - Category 4  
 SKIN IRRITATION - Category 2  
 SERIOUS EYE DAMAGE - Category 1  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 2  
 TOXIC TO REPRODUCTION - Category 2  
 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 2  
 HNOC - Defatting irritant

#### Composition/information on ingredients

| Name              | %         | Classification   |
|-------------------|-----------|--|
| xylene            | ≥20 - ≤46 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| Isopropyl alcohol | ≥20 - ≤50 | ASPIRATION HAZARD - Category 1<br>FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3   |
| butanone          | ≥20 - ≤47 | FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3   |

## Section 15. Regulatory information

|   |             |  |
|---|-------------|--|
| ethylbenzene                                  | ≥5.0 - ≤8.2 | HNOC - Defatting irritant<br>FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1   |
| N-(3-(trimethoxysilyl)propyl) ethylenediamine | ≥1.0 - ≤3.2 | HNOC - Defatting irritant<br>ACUTE TOXICITY (inhalation) - Category 4<br>SERIOUS EYE DAMAGE - Category 1<br>SKIN SENSITIZATION - Category 1B   |
| 2,4,6-tris(dimethylaminomethyl) phenol        | ≥1.0 - ≤3.5 | ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>SKIN CORROSION - Category 1C<br>SERIOUS EYE DAMAGE - Category 1<br>SKIN SENSITIZATION - Category 1B  |
| 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) (Narcotic effects) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1<br>HNOC - Defatting irritant |

### SARA 313

| Supplier notification | Chemical name | CAS number | Concentration |
|-----------------------|---------------|------------|---------------|
|                       | xylene        | 1330-20-7  | 30 - 60       |
|                       | ethylbenzene  | 100-41-4   | 5 - 10        |

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

### California Prop. 65

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Section 16. Other information

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

Health : 3 \* 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 : 3 Flammability : 3 Instability : 0

Date of previous issue : 6/22/2021

## Section 16. Other information

Organization that prepared the SDS : EHS

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = 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.*

## **Section 16. Other information**

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