# **SAFETY DATA SHEET**



Date of issue/Date of revision18 February 2021Version 13

Section 1. Identification		
Product name	: 529K002 BASE COMPONENT	
Product code	: 529K002 BASE COMPONENT	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	of the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 918 262 6711	
<u>Emergency telephone</u> <u>number</u>	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> <li>Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 45.6% (oral), 49.5% (dermal), 57.4% (inhalation)</li> </ul>
GHS label elements	
Hazard pictograms	
Signal word	: Danger
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Product name 529K002 BASE COMPONENT

## Section 2. Hazards identification

Hazard statements	<ul> <li>Fighly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> </ul>
Precautionary statements	
Prevention	: Øbtain 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	: F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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
Product name

: Mixture

: 529K002 BASE COMPONENT

Ingredient name	%	CAS number
<b>p</b> -butyl acetate	≥20 - ≤50	123-86-4
ethyl acetate	≥10 - ≤20	141-78-6
xylene	≥5.0 - ≤7.8	1330-20-7
Aluminium powder (stabilized)	≥1.0 - ≤5.0	7429-90-5
butan-1-ol	≥0.10 - ≤2.1	71-36-3
Solvent naphtha (petroleum), light aromatic	≥0.10 - ≤2.5	64742-95-6
ethylbenzene	≤1.9	100-41-4

SUB codes represent substances without registered CAS Numbers.

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

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Product name 529K002 BASE COMPONENT

# Section 3. Composition/information on ingredients

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

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

# Section 4. First aid measures

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

## Description of necessary first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

Potential acute health eff	iects
Eye contact	: 🔽auses serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/syr	<u>nptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate m	edical 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.
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# Section 4. First aid measures

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

## See toxicological information (Section 11)

#### Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur from the chemical and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. **Hazardous thermal** : Decomposition products may include the following materials: carbon oxides decomposition products nitrogen oxides halogenated compounds metal oxide/oxides Formaldehyde. : Promptly isolate the scene by removing all persons from the vicinity of the incident if **Special protective actions** there is a fire. No action shall be taken involving any personal risk or without suitable for fire-fighters training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. : Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

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

### Methods and materials for containment and cleaning up

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# Section 6. Accidental release measures

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

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. 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**

P-butyl acetate       OSHA PEL (United States, 5/2018). TWA: 710 mg/m³ 8 hours. TWA: 150 ppm 8 hours.         acGiH TLV (United States, 3/2019).         STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.         acGiH TLV (United States, 3/2019).         STEL: 150 ppm 8 hours.         TWA: 50 ppm 8 hours.         TWA: 50 ppm 8 hours.         TWA: 1440 mg/m³ 8 hours.         TWA: 1440 mg/m³ 8 hours.         TWA: 400 ppm 8 hours.         TWA: 400 ppm 8 hours.         TWA: 1400 mg/m³ 8 hours.         TWA: 1400 mg/m³ 8 hours.	
TWA: 150 ppm 8 hours.ACGIH TLV (United States, 3/2019).STEL: 150 ppm 15 minutes.TWA: 50 ppm 8 hours.TWA: 50 ppm 8 hours.TWA: 1440 mg/m³ 8 hours.TWA: 1440 mg/m³ 8 hours.TWA: 400 ppm 8 hours.OSHA PEL (United States, 5/2018).	
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ethyl acetateSTEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.ethyl acetateACGIH TLV (United States, 3/2019). TWA: 1440 mg/m³ 8 hours. TWA: 400 ppm 8 hours. TWA: 400 ppm 8 hours.OSHA PEL (United States, 5/2018).	
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TWA: 400 ppm 8 hours. OSHA PEL (United States, 5/2018).	
OSHA PEL (United States, 5/2018).	
$T_M/A \cdot 1/00 ma/m^3 \theta$ have	
TWA: 1400 mg/m³ 8 hours.	
TWA: 400 ppm 8 hours.	
xylene ACGIH TLV (United States, 3/2019).	
STEL: 651 mg/m <sup>3</sup> 15 minutes.	
STEL: 150 ppm 15 minutes.	
TWA: 434 mg/m <sup>3</sup> 8 hours.	
TWA: 100 ppm 8 hours.	
OSHA PEL (United States, 5/2018).	
TWA: 435 mg/m <sup>3</sup> 8 hours.	
TWA: 100 ppm 8 hours.	
aluminium powder (stabilised) ACGIH TLV (United States, 3/2019).	
TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respir	able
fraction	
OSHA PEL (United States, 5/2018).	
TWA: 5 mg/m³, (as Al) 8 hours. Form	c.
Respirable fraction	•
TWA: 15 mg/m³, (as Al) 8 hours. Forr	m: Total
dust	
butan-1-ol ACGIH TLV (United States, 3/2019).	
TWA: 20 ppm 8 hours.	
OSHA PEL (United States, 5/2018).	
TWA: 300 mg/m <sup>3</sup> 8 hours.	
TWA: 100 ppm 8 hours.	
Solvent naphtha (petroleum), light aromatic None.	
ethylbenzene ACGIH TLV (United States, 3/2019).	
TWA: 20 ppm 8 hours.	
OSHA PEL (United States, 5/2018).	
TWA: 435 mg/m <sup>3</sup> 8 hours.	
TWA: 435 mg/m 8 hours.	
TWA. 100 ppin 6 hours.	
Key to abbreviations	
A = Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization	
C = Ceiling Limit SS = Skin sensitization	
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	

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# Section 8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	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 measur	<u>es</u>	
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	1	Chemical splash goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	1	For prolonged or repeated handling, use the following type of gloves:
		Recommended: polyvinyl alcohol (PVA), Viton®, butyl rubber, neoprene May be used: 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.

# Section 8. Exposure controls/personal protection

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.
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# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: 77.22 to 144.44°C (171 to 292°F)
Flash point	: Closed cup: -5°C (23°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	: 1.04
Density(lbs / gal)	: 8.68
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-	: Not available.
octanol/water	
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	: 525 g/l
% Solid. (w/w)	: 52.5

# Section 10. Stability and reactivity

<b></b>	Refer to protective measures listed in sections 7 and 8. United States Page: 8/16
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

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## Section 10. Stability and reactivity

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 halogenated compounds Formaldehyde. 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	-
ethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
,	LD50 Oral	Rat	5620 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
aluminium powder (stabilised)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
,	LD50 Oral	Rat	>15900 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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
-	LD50 Oral	Rat	8400 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					

<u>conclusion/summary</u>	
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	

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## Section 11. Toxicological information

**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
kylene ethylbenzene	-	3 2B	-

Carcinogen Classification code:

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

## Reproductive toxicity

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

### **Teratogenicity**

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

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
-butyl acetate	Category 3	-	Narcotic effects
ethylacetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	•••	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS), eye, lens or cornea. Contains material which may cause damage to the following organs: blood, kidneys,

lungs, the nervous system, liver, upper respiratory tract, skin, ears.

### Aspiration hazard

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

### Information on the likely routes of exposure

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# Section 11. Toxicological information

Potential acute health effec	t <u>s</u>
Eye contact	: 🖉 auses serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	ioms
Eye contact	: Adverse symptoms may include the following: pain or irritation
Inhalation	<ul> <li>watering</li> <li>redness</li> <li>Adverse symptoms may include the following:</li> <li>nausea or vomiting</li> <li>headache</li> <li>drowsiness/fatigue</li> </ul>
Skin contact	<ul> <li>dizziness/vertigo unconsciousness</li> <li>Adverse symptoms may include the following: irritation dryness cracking</li> </ul>
Ingestion	: No specific data.
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer 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.
<u>Short term exposure</u>	
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 eff	ects
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
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# Section 11. Toxicological information

Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

## Numerical measures of toxicity

## Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
529K002 BASE COMPONENT	13895.5	11175.3	N/A	67.2	8.6
n-butyl acetate	10768	N/A	N/A	N/A	N/A
ethyl acetate	5620	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
butan-1-ol	790	3400	N/A	24	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	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
<b>p</b> -butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

## Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
n-butyl acetate xylene ethylbenzene	- - -				Readily Readily Readily	

### **Bioaccumulative potential**

# Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
-butyl acetate	1.78	-	low
ethyl acetate	0.73	-	low
xylene	3.16	7.4 to 18.5	low
butan-1-ol	0.88	-	low
ethylbenzene	3.15	79.43	low

## Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

```
Disposal methods
```

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

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

	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	11	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	<b>1</b> 591.6	Not applicable.	Not applicable.
RQ substances	(xylene, n-butyl acetate)	Not applicable.	Not applicable.

## 14. Transport information

United States Page: 13/16

Date of issue 18 February 2021 Version 13

## Product name 529K002 BASE COMPONENT

## 14. Transport information

### **Additional information**

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

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

Transport in bulk according : Not applicable.

to IMO instruments

# Section 15. Regulatory information

### United States

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

### SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 2
	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
<b>n</b> -butyl acetate	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
ethyl acetate	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
xylene	≥5.0 - ≤7.8	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		United States Page: 14/16

## Section 15. Regulatory information

	(Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1
≥0 10 - ≤2 1	FLAMMABLE LIQUIDS - Category 3
-0110 -211	ACUTE TOXICITY (oral) - Category 4
	SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Narcotic effects) - Category 3
	HNOC - Defatting irritant
≥0.10 - ≤2.5	FLAMMABLE LIQUIDS - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Narcotic effects) - Category 3
	ASPIRATION HAZARD - Category 1
<1.0	HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 2
51.9	ACUTE TOXICITY (inhalation) - Category 4
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 2
	ASPIRATION HAZARD - Category 1
	HNOC - Defatting irritant
	≥0.10 - ≤2.1 ≥0.10 - ≤2.5 ≤1.9

## SARA 313

	Chemical name	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: xylene	1330-20-7	3 - 7
	Aluminium powder (stabilized)	7429-90-5	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 - www.P65Warnings.ca.gov.

## Section 16. Other information

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

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Health : 73 * Flammability : 3 Physical hazards : 0
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(*) - Chronic effects
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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 : 73 Flammability : 3 Instability : 0

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Date of issue 18 February 2021 Version 13

Product name 529K002 BASE COMPONENT

## Section 16. Other information

Date of previous issue	: 2/13/2021	
Organization that prepared the MSDS	: EHS	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations	

## Indicates information that has 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.

# **SAFETY DATA SHEET**



Date of issue/Date of revision26 July 2020Version 16.01

Section 1. Identification				
Product name	: 910K021 CURING SOLUTION			
Product code	: 910K021 CURING SOLUTION			
Other means of identification	: Not available.			
Product type	: Liquid.			
Relevant identified uses of	of the substance or mixture and uses advised against			
Product use	: Industrial applications.			
Use of the substance/ mixture	: Hardener.			
Uses advised against	: Not applicable.			
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342			
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)			

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUÍDS - 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: 4.6%</li> </ul>
	(Dermal), 24.3% (Inhalation)
GHS label elements	

**United States** 

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# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>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)</li> </ul>
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	<ul> <li>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.</li> </ul>
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

### Substance/mixture Product name

: Mixture

: 910K021 CURING SOLUTION

Ingredient name	%	CAS number
xylene	≥20 - ≤50	1330-20-7
Isopropyl alcohol	≥20 - ≤50	67-63-0
butanone	≥20 - ≤50	78-93-3
ethylbenzene	≥5.0 - ≤10	100-41-4
N-(3-(trimethoxysilyl)propyl)ethylenediamine	≥1.0 - ≤5.0	1760-24-3
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	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

Potential acute healt	h 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	1	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	1	Adverse symptoms may include the following:
		stomach pains
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
dication of immodiate medi	~~	l attention and special treatment needed, if necessa
	La	i allennon and special lleannent needed, il necessa

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

Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li></ul>
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. <li>No specific treatment.</li>
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.

**United States** 

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## Product name 910K021 CURING SOLUTION

# 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 co	ntainment 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	ACGIH TLV (United States, 3/2019).		
	STEL: 651 mg/m <sup>3</sup> 15 minutes.		
	STEL: 150 ppm 15 minutes.		
	TWA: 434 mg/m <sup>3</sup> 8 hours.		
	TWA: 100 ppm 8 hours.		
	OSHA PEL (United States, 5/2018).		
	TWA: 435 mg/m <sup>3</sup> 8 hours.		
	TWA: 100 ppm 8 hours.		
Isopropyl alcohol	ACGIH TLV (United States, 3/2019).		
	STEL: 400 ppm 15 minutes.		
	TWA: 200 ppm 8 hours.		
	United States Page: 6/17		

# Section 8. Exposure controls/personal protection

OSHA PEL (United States, 5/2018). TWA: 980 mg/m³ 8 hours. TWA: 400 ppm 8 hours. ACGIH TLV (United States, 3/2019).butanoneACGIH TLV (United States, 3/2019). STEL: 885 mg/m³ 15 minutes. STEL: 300 ppm 15 minutes. TWA: 590 mg/m³ 8 hours. TWA: 200 ppm 8 hours.ethylbenzeneOSHA PEL (United States, 5/2018). TWA: 590 mg/m³ 8 hours. TWA: 200 ppm 8 hours. OSHA PEL (United States, 3/2019). TWA: 200 ppm 8 hours.ethylbenzeneACGIH TLV (United States, 3/2019). TWA: 200 ppm 8 hours. TWA: 200 ppm 8 hours. TWA: 200 ppm 8 hours.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm 7 TWA: 200 ppm 8 hours.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.N-(3-(trimethoxysilyl)propyl)ethylenediamine tolueneNone.None.None.None.None.None.None.None.None.None.None.None.CEIL: 300 ppm TWA: 200 ppm 8 hours.ACGIH TLV (United States, 3/2019). TWA: 200 ppm 8 hours.ACGIH TLV (United States, 3/2019). TWA: 20 ppm 8 hours.
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N-(3-(trimethoxysilyl)propyl)ethylenediamine toluene N-(3-(trimethoxysilyl)propyl)ethylenediamine toluene None. OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2019).
N-(3-(trimethoxysilyl)propyl)ethylenediamine toluene M-(3-(trimethoxysilyl)propyl)ethylenediamine toluene Mone OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2019).
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N-(3-(trimethoxysilyl)propyl)ethylenediamine       None.         toluene       OSHA PEL Z2 (United States, 2/2013).         AMP: 500 ppm 10 minutes.       CEIL: 300 ppm         TWA: 200 ppm 8 hours.       ACGIH TLV (United States, 3/2019).
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CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2019).
TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2019).
ACGIH TLV (United States, 3/2019).
TWA: 20 ppm 8 hours.
Key to abbreviations
A = Acceptable Maximum Peak S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization
C = Ceiling Limit SS = Skin sensitization
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
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.

# **Section 9. Physical and chemical properties**

		<b>United States</b>	Page: 8/17
Vapor pressure	: Not available.		
Evaporation rate	: Not available.		
Lower and upper explosive (flammable) limits	: Not available.		
Flammability (solid, gas)	: Not available.		
Decomposition temperature	: Not available.		
Auto-ignition temperature	: Not available.		
Flash point	: Closed cup: 7.22°C (45°F)		
Boiling point	: >37.78°C (>100°F)		
Melting point	: Not available.		
рН	: Not available.		
Odor threshold	: Not available.		
Odor	: Not available.		
Color	: Clear.		
Physical state	: Liquid.		
Appearance			

# Section 9. Physical and chemical properties

Vapor density	: Not available.
Relative density	: 0.84
Density(Ibs / gal)	: 7.01
Solubility Partition coefficient: n- octanol/water	<ul><li>Insoluble in the following materials: cold water.</li><li>Not available.</li></ul>
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	: 807 g/l

# Section 10. Stability and reactivity

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

# 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	-
	LD50 Oral	Rat	5045 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Oral	Rat	2413 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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Contine 11 Toxicological informat

# Section 11. Toxicological information

Conclusion/Summary Irritation/Corrosion	: There ar	e no data	available on the mi	xture itself.		
Product/ingredient name	Result		Species	Score	Exposure	Observation
xylene	Skin - Mo	derate irrita	ant Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			·	·		
Skin	: There ar	re no data	available on the mi	xture itself.		
Eyes	: There ar	re no data	available on the mi	xture itself.		
Respiratory	: There ar	re no data	available on the mi	xture itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					
<u>Mutagenicity</u>						
Conclusion/Summary	: There are no data available on the mixture itself.					
Carcinogenicity						
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.						
<u>Classification</u>						
Product/ingredient name	OSHA	IARC	NTP			
xylene	-	3	-			
Isopropyl alcohol	-	3	-			
ethylbenzene	-	2B	-			

Carcinogen Classification code:

\_

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

### **Reproductive toxicity**

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

3

### Teratogenicity

toluene

**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)

## Section 11. Toxicological information

Name		Route of exposure	Target organs
•	Category 2 Category 2	-	hearing organs -

**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 ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

## Information on the likely routes of exposure

## Potential acute health effects

Eye contact Inhalation Skin contact	<ul> <li>Causes serious eye damage.</li> <li>Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> <li>Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> </ul>
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/sympt	<u>ioms</u>
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 skeletal malformations
Skin contact	<ul> <li>Adverse symptoms may include the following:</li> <li>pain or irritation</li> <li>redness</li> <li>dryness</li> <li>cracking</li> <li>blistering may occur</li> <li>reduced fetal weight</li> <li>increase in fetal deaths</li> <li>skeletal malformations</li> </ul>

Product name 910K021 CURING SOLUTION

# Section 11. Toxicological information

		-
Ingestion	:	Adverse symptoms may include the following: stomach pains
		reduced fetal weight
		increase in fetal deaths skeletal malformations
Delayed and immediate effect	cts	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.
<u>Short term exposure</u>		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects Long term exposure	1	There are no data available on the mixture itself.
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health eff	ect	<u>s</u>
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.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	<u>ity:</u>	
Acute toxicity estimates		

# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
910K021 CURING SOLUTION xylene Isopropyl alcohol butanone ethylbenzene N-(3-(trimethoxysilyl)propyl)ethylenediamine toluene	4824.7 4300 5045 2737 3500 2413 5580	4835 1700 12800 6480 17800 N/A 8390	N/A N/A N/A N/A N/A N/A	19.1 11 72.6 N/A 17.8 11 49	2.5 1.5 N/A 1.5 1.5 N/A

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
1 1 5	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

### Persistence and degradability

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

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
Isopropyl alcohol	0.05	-	low
butanone	0.29	-	low
ethylbenzene	3.15	79.43	low
toluene	2.73	8.32	low

## Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 12 Disposal consideration

Section 13. Disposal considerations

**Disposal methods** 

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

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

## 14. Transport information

	DOT	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	II	II	II	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (lbs)	284.41	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.

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

Transport in bulk according : Not applicable. to IMO instruments

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## 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	<ul> <li>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     </li> </ul>
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

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

Name	%	Classification
xylene	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
Isopropyl alcohol	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
butanone	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
ethylbenzene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
N-(3-(trimethoxysilyl)propyl)	≥1.0 - ≤5.0	ACUTE TOXICITY (inhalation) - Category 4
ethylenediamine		SERIOUS EYE DAMAGE - Category 1
·	•	United States Page: 15/17

## Section 15. Regulatory information

toluene	<1.0	SKIN SENSITIZATION - Category 1B FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

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

	Chemical name	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: xylene	1330-20-7	15 - 40
	ethylbenzene	100-41-4	3 - 7

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

## California Prop. 65

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

# Section 16. Other information

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

Health : 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 Asso	ociation (U.S.A.)	
Health : 3 Flammal	bility : 3 Instability : 0	
Date of previous issue	: 7/26/2020	
Organization that prepared the MSDS	: EHS	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations	
V Indiantan information that	has sharened from providently isotrad version	

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

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# Section 16. Other information

## **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.