SAFETY DATA SHEET



Date of issue/Date of revision13 June 2020Version 14

Section 1. Identification	
Product name	: 515X410 BASE COMPONENT
Product code	: 515X410 BASE COMPONENT
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses o	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
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	 AMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 30% (Oral), 81.2% (Dermal), 52.7% (Inhalation)
GHS label elements	

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Detain special instructions before use. Wear protective gloves. Wear protective clothing. Wear 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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: Immediately call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: 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. 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. NTP, IARC and OSHA have classified chromium (+6) compounds as carcinogenic. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

- Substance/mixture Product name
- : Mixture

: 515X410 BASE COMPONENT

Ingredient name	%	CAS number
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	≥20 - ≤50	9003-36-5
strontium chromate	≥20 - ≤22	7789-06-2
crystalline silica, respirable powder (<10 microns)	≥10 - ≤20	14808-60-7
heptan-2-one	≥5.0 - ≤9.4	110-43-0
proprietary pigments blend-7YB	≥5.0 - ≤10	Not available.
4-methylpentan-2-one	≥5.0 - ≤7.2	108-10-1
cristobalite (<10 microns)	≥1.0 - ≤5.0	14464-46-1
cyclohexanone	≥1.0 - ≤5.0	108-94-1
toluene	≥1.0 - ≤3.3	108-88-3
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - ≤3.7	2530-83-8
ethylbenzene	<1.0	100-41-4

SUB codes represent substances without registered CAS Numbers.

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

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

Eye contact	: Causes serious eye damage.
Inhalation	: Toxic if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction
Ingestion	Harmful if swallowed.

Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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 Specific treatments	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Fighly 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.

Product name 515X410 BASE COMPONENT

Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds 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

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

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: 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	: 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: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from 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
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	None.
strontium chromate	ACGIH TLV (United States, 3/2019).
	TWA: 0.0005 mg/m ³ , (measured as Cr) 8
	hours.
	OSHA PEL Z2 (United States, 2/2013).
	CEIL: 1 mg/10m ³
	OSHA PEL (United States, 5/2018).
	TWA: 0.005 mg/m³, (as Cr) 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 3/2019).
	United States Page: 6/19

Section 8. Exposure controls/personal protection

<u> </u>	United States Page: 7/19
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
[2 (2 2 anovypronovy))pronyl]trimethow/cilene	TWA: 20 ppm 8 hours.
	ACGIH TLV (United States, 3/2019).
	TWA: 200 ppm 8 hours.
	CEIL: 300 ppm
	AMP: 500 ppm 10 minutes.
toluene	OSHA PEL Z2 (United States, 2/2013).
	TWA: 50 ppm 8 hours.
	TWA: 200 mg/m ³ 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 20 ppm 8 hours.
	STEL: 50 ppm 15 minutes.
	Absorbed through skin.
cyclohexanone	ACGIH TLV (United States, 3/2019).
	Respirable fraction
	TWA: 0.025 mg/m ³ 8 hours. Form:
	ACGIH TLV (United States, 3/2019).
	dust
	TWA: 50 µg/m ³ 8 hours. Form: Respirable
	OSHA PEL (United States, 5/2018).
	Form: Total dust
	TWA: 30 mg/m ³ / 2 x ($\%$ SiO2+2) 8 hours.
	Form: Respirable
	TWA: 10 mg/m ³ / 2 x (%SiO2+2) 8 hours.
	Form: Respirable
	TWA: 250 mppcf / 2 x (%SiO2+5) 8 hours.
cristobalite (<10 microns)	OSHA PEL Z3 (United States, 6/2016).
	TWA: 410 mg/m ² 8 hours.
	TWA: 410 mg/m ³ 8 hours.
	OSHA PEL (United States, 5/2018).
	STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.
4-methylpentan-2-one	TWA: 10 mg/m ³ Form: inhalable dust ACGIH TLV (United States, 3/2019).
	TWA: 3 mg/m ³ Form: Respirable dust
proprietary pigments blend-7YB	ACGIH TLV (United States).
proprietary pigments blond 7VP	TWA: 100 ppm 8 hours.
	TWA: 465 mg/m ³ 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 50 ppm 8 hours.
	TWA: 233 mg/m ³ 8 hours.
heptan-2-one	ACGIH TLV (United States, 3/2019).
hantan 2 ana	dust
	TWA: 50 µg/m³ 8 hours. Form: Respirable
	OSHA PEL (United States, 5/2018).
	Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:
	OSHA PEL Z3 (United States, 6/2016).
	Respirable
	TWA: 0.025 mg/m ³ 8 hours. Form:

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Section 8. Exposure controls/personal protection

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ethylbenzene		ACGIH TLV (United States, 3/2019). TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
	Key to abbreviations	
C = Ceiling Limit F = Fume IPEL = Internal Permissible Exp OSHA = Occupational Safety and R = Respirable	eak Governmental Industrial Hygienists. osure Limit Health Administration. 00 Subpart Z - Toxic and Hazardous Substances	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average
Recommended monitoring procedures	: If this product contains ingredients wi atmosphere or biological monitoring r the ventilation or other control measu protective equipment. Reference sho	may be required to determine the effectiveness of ires and/or the necessity to use respiratory build be made to appropriate monitoring standards. ments for methods for the determination of
Appropriate engineering controls Environmental exposure controls	 other engineering controls to keep we recommended or statutory limits. The vapor or dust concentrations below a ventilation equipment. Emissions from ventilation or work pr they comply with the requirements of 	Jse process enclosures, local exhaust ventilation or orker exposure to airborne contaminants below any e engineering controls also need to keep gas, ny lower explosive limits. Use explosion-proof ocess equipment should be checked to ensure environmental protection legislation. In some ineering modifications to the process equipment
Individual protection measure	will be necessary to reduce emission	
Individual protection measur Hygiene measures	: Wash hands, forearms and face thore eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should n	oughly after handling chemical products, before ry and at the end of the working period. ed to remove potentially contaminated clothing. ot be allowed out of the workplace. Wash . Ensure that eyewash stations and safety location.
Eye/face protection	: Chemical splash goggles and face sh	nield.
Skin protection		
Hand protection	worn at all times when handling chem necessary. Considering the paramet during use that the gloves are still ret noted that the time to breakthrough for	s complying with an approved standard should be nical products if a risk assessment indicates this is ers specified by the glove manufacturer, check aining their protective properties. It should be or any glove material may be different for different mixtures, consisting of several substances, the be accurately estimated.
Gloves	: butyl rubber	

Section 8. Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Green.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 5.56°C (42°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	: 1.49
Density(lbs / gal)	: 12.43
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	: 354 g/l
% Solid. (w/w)	: 76.3

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	
Formaldehyde, oligomeric	LD50 Oral	Rat	>10000 mg/kg	-	
reaction products with					
1-chloro-2,3-epoxypropane					
and phenol					
strontium chromate	LC50 Inhalation Dusts and mists	Rat	0.27 mg/l	4 hours	
	LD50 Oral	Rat	3118 mg/kg	-	
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours	
	LD50 Dermal	Rabbit	10.206 g/kg	-	
	LD50 Oral	Rat	1.6 g/kg	-	
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours	
	LD50 Oral	Rat	2.08 g/kg	-	
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours	
	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours	
	LD50 Dermal	Rabbit	1100 mg/kg	-	
	LD50 Oral	Rat	1.54 g/kg	-	
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours	
	LD50 Dermal	Rabbit	8.39 g/kg	-	
	LD50 Oral	Rat	5580 mg/kg	-	
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m ³	4 hours	
trimethoxysilane					
	LD50 Dermal	Rabbit	4.3 g/kg	-	
	LD50 Oral	Rat	7.01 g/kg	-	
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours	
5	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.

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Cornea opacity		/ Rabbit	11.8	1 minutes	24 hours
Conclusion/Summary	•					
Skin	: There are	e no data av	/ailable on the mixtu	ure itself.		
Eyes	: There are	e no data av	/ailable on the mixtu	ure itself.		
Respiratory	: There are	e no data av	vailable on the mixtu	ure itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data av	/ailable on the mixtu	ure itself.		
Respiratory	: There are	e no data av	ailable on the mixtu	ure itself.		
Mutagenicity						
Conclusion/Summary	: There are	e no data av	vailable on the mixtu	ure itself.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data av	ailable on the mixtu	ure itself.		
Classification						
Product/ingredient name	OSHA	IARC	NTP			
strontium chromate	+	1	Known to be a hum	nan carcinoge	en.	
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a hum	nan carcinoge	en.	
proprietary pigments blend- 7YB	-	2B	-			
4-methylpentan-2-one	-	2B	-			
cristobalite (<10 microns)	-	1	Known to be a hum	nan carcinoge	en.	
cyclohexanone	-	3	-			
toluene 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)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
strontium chromate	Category 3	-	Respiratory tract irritation
heptan-2-one	Category 3	-	Narcotic effects
4-methylpentan-2-one	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Target organs

: Contains material which causes damage to the following organs: blood, liver, spleen, brain, skin, bone marrow.

Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, heart, peripheral nervous system, cardiovascular system, upper respiratory tract, immune system, bones, central nervous system (CNS), eye, lens or cornea.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effects	
Inhalation Skin contact	Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Harmful if swallowed.
	Adverse symptoms may include the following:
	pain watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations

Section 11. Toxicological information

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Skin contact	:	Adverse symptoms may include the following: pain or irritation
		redness
		dryness
		cracking
		blistering may occur
		reduced fetal weight
		increase in fetal deaths
Induction		skeletal malformations
Ingestion	1	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. 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. 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	1	There are no data available on the mixture itself.
<u>Long 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.
Potential chronic health eff		
		-
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity		Suspected of causing genetic defects.
		United States Page: 13/19
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Section 11. Toxicological information

- : Suspected of damaging the unborn child.
- Developmental effects Fertility effects

Teratogenicity

No known significant effects or critical hazards.Suspected of damaging fertility.

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)
515X410 BASE COMPONENT	1280.6	4880.8	98773.8	32.5	0.52
strontium chromate	500	N/A	N/A	N/A	0.27
heptan-2-one	1600	10206	N/A	16.7	1.5
4-methylpentan-2-one	2080	N/A	N/A	12.3	1.5
cyclohexanone	1540	1100	8000	11	N/A
toluene	5580	8390	N/A	49	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	4300	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
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	Acute LC50 2.54 mg/l	Fish	96 hours
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute LC50 324 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
heptan-2-one	OECD 310	69 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
heptan-2-one toluene ethylbenzene	- - -		- - -		Readily Readily Readily	

Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
heptan-2-one	1.98	-	low
4-methylpentan-2-one	1.31	-	low
cyclohexanone	0.81	-	low
toluene	2.73	8.32	low
ethylbenzene	3.15	79.43	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

14 Transport information

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.
	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	ΙΑΤΑ	
UN1263	UN1263	UN1263	
PAINT	PAINT	PAINT	
3	3	3	
11	11	II	
No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Not applicable.	(Epoxy Resin, strontium chromate)	Not applicable.	
46.308	Not applicable.	Not applicable.	
	UN1263 PAINT 3 II No. Not applicable.	UN1263UN1263PAINTPAINT33IIIINo.Yes.Not applicable.(Epoxy Resin, strontium chromate)	

Date of issue 13 June 2020

Annual notification

Product name 515X410 BASE COMPONENT

14. Transport information **RQ** substances (strontium 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 \leq 5 L or \leq 5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special prec	autions for user : Transport within user's premises: always transport in closed containers that are

s premises: always transport in closed containers that 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.

United States - TSCA 12(b) - Chemical export notification: strontium 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 (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 **SKIN IRRITATION - Category 2** SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 **GERM CELL MUTAGENICITY - Category 2** CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HNOC - Defatting irritant

Composition/information on ingredients

Section 15. Regulatory information

reaction products with 1-chloro- 2.3-epoxypropane and phenol strontium chromate SKIN SENSITIZATION - Category 1B 2.3-epoxypropane and phenol strontium chromate Skin SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SCROCCUL MUTAGENCITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINOLE EXPOSURE) (Respiratory tract tiritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINOLE EXPOSURE) (Respiratory tract tiritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINOLE EXPOSURE) (Respiratory tract tiritation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINOLE EXPOSURE) (Narcotic efforts) beptan-2-one 25.0 - ≤9.4 ACUTE TOXICITY (Inhalation) - Category 4 ACUTE TOXICITY (Inhalation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 1 ACUTE TOXICITY (Inhalation) - Category 1 ASPIRATION HZAEGY - Category 1 HNOC - Defating iritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narco	Name	%	Classification
strontium chromate 220 - ≤22 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhaliation) - Category 1B GERM CELL MUTAGENICITY - Category 2 SKIN SENSITIZATION - Category 1B GERM CELL MUTAGENICITY - Category 2 crystalline silica, respirable powder (<10 microns)	Formaldehyde, oligomeric reaction products with 1-chloro-	≥20 - ≤50	
ACUTE TOXICITY (inhalation) -Category 2 SKIN SENSITIZATION - Category 1B GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 2 CARCINOGENICITY - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tractimitation) - Category 3 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 ACUTE TOXICITY (oral) - Category 3 HNOC - Defating initiant OC - Defating initiant CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (oral) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -		>20 <22	
SKIN SENSITIZATION - Category 18 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACINE TOXICITY (CARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ACUTE TOXICITY (inhaliation) - Category 4 ACUTE TOXICITY (inhaliation) - Category 2 ACUTE TOXICITY (inhaliation) - Category 4 EXPOSURE) - S5.0 - S10 CARCINOGENICITY - Category 2 ACUTE TOXICITY (inhaliation) - Category 4 EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (inhaliation) - Category 3 ACUTE TOXICITY (inhaliation) - Category 4 ACUTE TOXICITY (inhaliation) - Category 3 ACUTE TOXICITY (inhaliation) - Category 4 ACUTE TOXICITY (inhaliation) - Category 4 ACUTE TOXICITY (inhaliation) - Category 2 SERIOUS EVE DAMAGE - Category 1 SERIOUS EVE DAMAGE - Category 1 ASPIRATION - Category 2 SERIOUS EVE DAMAGE - Category 1 HNOC - Defating irritant 3-(2,2,3-epoxypropoxy)propy]] 21.0 - \$3.7 3-10 - \$3.7 SERIOUS EVE DAMAGE - Category 1 HNOC - Defating irritant 3-2,2,3-epoxypropoxy)propy]] 21.0 - \$3.7 \$1.0 - \$3.7	submut chomate	220 - 322	
GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 18 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (Intel ICUIDS - Category 1 ACUTE TOXICITY (Intel ICUIDS) heptan-2-one 25.0 - 59.4 55.0 - 59.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (Intel ICUIDS) proprietary pigments blend-7YB 25.0 - 510 55.0 - 57.2 ACRONOGENICITY - Category 2 ACRONOGENICITY - Category 2 ACUTE TOXICITY (Intel Icuid) proprietary pigments blend-7YB 25.0 - 510 55.0 - 57.2 ACRONOGENICITY - Category 2 ACRONOGENICITY - Category 2 CARCINOGENICITY - Category 2 ACRONOGENICITY - Category 2 ACRONOGENICITY - Category 2 ACRONOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 4 EYE IRRITATION - Category 1 CARCINOGENICITY - Category 1 ACUTE TOXICITY (Inhaltation) - Category 3 HNOC - Defating irritant cristobalite (<10 microns)			
CARCINOGENICITY - Category 18 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 crystalline silica, respirable powder (<10 microns)			
crystalline silica, respirable powder (<10 microns)			
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory track initiation) - Category 3 crystalline silica, respirable powder (<10 microns)			
crystalline silica, respirable powder (<10 microns)			
crystalline silica, respirable powder (<10 microns)			
powder (<10 microns)	crystalline silica, respirable	>10 <20	
heptan-2-one 25.0 - \$9.4 EXPOSURE) - Category 1 heptan-2-one 25.0 - \$9.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) proprietary pigments blend-7YB 25.0 - \$10 COMBUSTIBLE DUSTS 4-methylpentan-2-one 25.0 - \$12 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 2 ACUTE TOXICITY - Category 2 Ac-methylpentan-2-one 25.0 - \$12 FLAMMABLE LIQUIDS - Category 2 AcUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract initiation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED SPECIFIC TARGET ORGAN TOXICITY (REPEATED cristobalite (<10 microns)		210-520	
heptan-2-one 25.0 - \$9.4 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant COMBUSTIBLE DUSTS CARCINOGENICITY - Category 2 4-methylpentan-2-one 25.0 - \$7.2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HINOC - Defatting irritant CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 EXPOSURE) - Category 1 Cyclohexanone 21.0 - \$5.0 \$1.0 - \$5.0 21.0 - \$5.0 \$1.0 - \$5.0 CARCINOGENICITY - Category 1 Cyclohexanone \$1.0 - \$5.0 21.0 - \$5.0 \$1.0 - \$5.0 FLAMMABLE LIQUIDS - Category 1 Cyclohexanone \$1.0 - \$5.0 21.0 - \$5.0 \$1.0 - \$5.0 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 1 HINOC - Defating irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 1 HINOC - Defating irritant CAUCTE TOXICITY (INBAL			
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sPFECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant 4-methylpentan-2-one ≥5.0 - ≤10 COMBUSTIBLE DUSTS CARCINOGENICITY - Category 2 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 4 EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3 ACUTE TOXICITY (coral) - Category 4 ACUTE TOXICITY (coral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SKIN IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 1 HNOC - Defating irritant (SIC) - SIR SIN IRRITATION - Category 1 HNOC - Defating irritant [3-(2,3-epoxypropoxy)propy]] trimethoxyslane ethylbenzene ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defating irritant			
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4-methylpentan-2-one ≥5.0 - ≤7.2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 EYE IRRITATION - Category 2 cristobalite (<10 microns)	proprietary pigments biend-7 TB	25.0 - 210	
ACUTE TOXICITY (inhalation) - Ćategory 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritation) - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 cyclohexanone ≥1.0 - ≤5.0 FLAMMABLE LIQUIDS - Category 1 cyclohexanone ≥1.0 - ≤5.0 Value FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (dermal) - Category 2 SERIOUS EYE DAMAGE - Category 1 toluene ≥1.0 - ≤3.3 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED (Narcotic effects)	1 methylpentan 2 one	>50 <72	
EYE IRRITATION - Čategory 2A CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant cristobalite (<10 microns)	4-methypentan-z-one	20.0 - 27.2	• •
CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Defatting irritant cristobalite (<10 microns)			
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HNOC - Defatting irritant cristobalite (<10 microns)			
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ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC 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 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 2 ACUTE TOXICITY (inhalation) - Category 4	cvclohexanone	≥1 0 - ≤5 0	
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ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - 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 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 2 ACUTE TOXICITY (inhalation) - Category 4			
Skin IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 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 SERIOUS EYE DAMAGE - Category 1 trimethoxysilane ethylbenzene[3-(2,3-epoxypropoxy)propyl] trimethoxysilane ethylbenzene≥1.0 - ≤3.7SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4			
toluene ≥1.0 - ≤3.3 SERIOUS EYE DAMAGE - Category 1 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 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant SERIOUS EYE DAMAGE - Category 2 ACUTE TOXICITY (inhalation) - Category 4 4			
toluene ≥1.0 - ≤3.3 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - 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 SERIOUS EYE DAMAGE - Category 1 trimethoxysilane <1.0			
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 SERIOUS EYE DAMAGE - Category 1 HNOC - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant SERIOUS EYE DAMAGE - Category 1 HNOL - Category 2 ACUTE TOXICITY (inhalation) - Category 4	toluene	≥1.0 - ≤3.3	
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 SERIOUS EYE DAMAGE - Category 1 trimethoxysilane ethylbenzene[3-(2,3-epoxypropoxy)propyl] trimethoxysilane ethylbenzene≥1.0 - ≤3.7SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4			
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 SERIOUS EYE DAMAGE - Category 1 trimethoxysilane ethylbenzene[3-(2,3-epoxypropoxy)propyl] trimethoxysilane ethylbenzene≥1.0 - ≤3.7SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4			
(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant[3-(2,3-epoxypropoxy)propyl] trimethoxysilane ethylbenzene≥1.0 - ≤3.7SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4			
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 HNOC - Defatting irritant SERIOUS EYE DAMAGE - Category 1 trimethoxysilane ethylbenzene <1.0			
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane ethylbenzene≥1.0 - ≤3.7EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant SERIOUS EYE DAMAGE - Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4			
[3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 ASPIRATION HAZARD - Category 1 [3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 trimethoxysilane <1.0			
[3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 HNOC - Defatting irritant trimethoxysilane <1.0			
[3-(2,3-epoxypropoxy)propyl] ≥1.0 - ≤3.7 SERIOUS EYE DAMAGE - Category 1 trimethoxysilane <1.0			0)
ethylbenzene <1.0	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	≥1.0 - ≤3.7	
ACUTE TOXICITY (inhalation) - Category 4	ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
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Section 15. Regulatory information

CARCINOGENICITY - Category 2
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>	Concentration
Supplier notification	: strontium chromate	7789-06-2	10 - 30
	4-methylpentan-2-one	108-10-1	3 - 7
	toluene	108-88-3	1 - 5
	ethylbenzene	100-41-4	0.1 - 1

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 : 4 * 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 : 4 Flammal	bility : 3 Instability : 0
Date of previous issue	: 2/28/2020
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 = Internediate 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

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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.