SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 23 October 2023

Version 11

Date of issue 23 October 2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

: SIGMAFAST 278 LIGHT GRAY 7035 RESIN
: 00398254
: Not applicable.
: Liquid.
the substance or mixture and uses advised against
: Professional applications, Used by spraying.
: Coating.
Not applicable.
: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
: 888-977-4762

SECTION 2: Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ✓ ercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 31.7% (oral), 59.4% (dermal), 64.7% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger
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Product name SIGMAFAST 278 LIGHT GRAY 7035 RESIN

SECTION 2: Hazards identification

Hazard statements	:	 H226 - Flammable liquid and vapor. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H350 - May cause cancer. H361 - Suspected of damaging fertility or the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. (hearing organs)
Precautionary statements		
Prevention	:	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product.
		P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	:	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P351 + P338, P310 - 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	1	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification		Causes digestive tract burns. Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation. 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 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. Emits toxic fumes when heated.
Son toxicological information	۰ / ۹	Soction 11)

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture Product name	: Mixture : SIGMAFAST 278 LIGHT GRAY 7035 RESIN
Other means of identification	: Not applicable.

Product name SIGMAFAST 278 LIGHT GRAY 7035 RESIN

SECTION 3: Composition/information on ingredients

		1
Ingredient name	%	CAS number
¢rystalline silica, respirable powder (<10 microns)	≥20 - ≤50	14808-60-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥10 - ≤20	1675-54-3
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
4-nonylphenol, branched	≥5.0 - ≤8.3	84852-15-3
titanium dioxide	≥5.0 - ≤10	13463-67-7
xylene	≥5.0 - ≤7.1	1330-20-7
1-methoxy-2-propanol	≥1.0 - ≤5.0	107-98-2
ethylbenzene	≤1.6	100-41-4
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	≥1.0 - ≤5.0	68609-97-2
Phenol, 2-nonyl-, branched	<1.0	91672-41-2
maleic anhydride	<0.10	108-31-6

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

Description of necessary first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

See toxicological information (Section 11)

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.

Product name SIGMAFAST 278 LIGHT GRAY 7035 RESIN

SECTION 5: Firefighting 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	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

Personal precautions, protec	tiv	e 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	ont	ainment 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.
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SECTION 6: Accidental release measures

SECTION 7: Handling and storage

	Precautions	for safe	handling
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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	:	Store between the following temperatures: 0 to 35°C (32 to 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			
vystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable			
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.			
Talc , not containing asbestiform fibres	NOM-010-STPS-2014 (Mexico, 4/2016). [Talc (without asbestos fibres)] STEL: 2 mg/m ³ 15 minutes. Form: Respirable			
4-nonylphenol, branched	None.			

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SECTION 8: Exposure controls/personal protection

titanium dioxide	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 10 mg/m ³ 8 hours.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016).
	[Xylenes (mixed)]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
1-methoxy-2-propanol	NOM-010-STPS-2014 (Mexico, 4/2016).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 20 ppm 8 hours.
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	None.
Phenol, 2-nonyl-, branched	None.
maleic anhydride	NOM-010-STPS-2014 (Mexico, 4/2016).
	Skin sensitizer.
	TWA: 0.01 mg/m ³ 8 hours. Form: Inhalable
	fraction and vapor
Key to abbreviations	
C = Ceiling Limit	STEL = Short term exposure limit

 IPEL
 = Internal Permissible Exposure Limit
 TLV
 = Threshold Limit Value

 TWA
 = Time Weighted Average

 Consult local authorities for acceptable exposure limits.

 Recommended monitoring procedures
 : 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			
	 Wash hands, forearms and face thoroughly after handling chemical products, be eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated cloth 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.		

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SECTION 8: Exposure controls/personal protection

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

Appearance					
Physical state	1	Liquid.			
Color	:	Gray.			
Odor	:	haracteristic.			
Odor threshold	:	Not available.			
Molecular weight	4	Not applicable.			
рН	÷	Not applicable.			
Melting point		Not available.			
Boiling point	4	>37.78°C (>100°F)			
Flash point	4	Closed cup: 38°C (100.4°F)			
Auto-ignition temperature	1	Not available.			
Decomposition temperature		Not available.			
Flammability		Not available.			
Lower and upper explosive (flammable) limits	1	Not available.			
Evaporation rate	:	Not available.			
Vapor pressure	:	Not available.			
Vapor density	1	Not available.			
Relative density	:	1.69			
Density(lbs / gal)	1	14.1			
		Media Result			
Solubility(ies)	1	cold water Not soluble			
Solubility in water	:	Not available.			
Partition coefficient: n- octanol/water	:	Not applicable.			
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)			
Volatility	:	16% (v/v), 8.525% (w/w)			
% Solid. (w/w)	;	91.475			

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SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
oxirane, mono[LD50 Oral	Rat	17100 mg/kg	-
(C12-14-alkyloxy)methyl]				
derivs.				
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

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

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SECTION 11: Toxicological information

Product/ingredient name	Result			Species	Scor	е	Exposure	Observation
pís-[4-(2,3-epoxipropoxi) phenyl]propane	Eyes - M	ild irritan	t	Rabbit	-		24 hours	-
	Eyes - Re conjuncti		of the	Rabbit	0.4		24 hours	-
	, Skin - Ed			Rabbit	0.5		4 hours	-
	Skin - Er	ythema/E	Eschar	Rabbit	0.8		4 hours	-
	Skin - Mi			Rabbit	-		4 hours	-
4-nonylphenol, branched	Skin - Er			Rabbit Rabbit	4		- 24 hours 500	-
xylene	Skin - Mo	derate i	mant	Raddit	-		24 hours 500 mg	-
Conclusion/Summary								
Skin				ble on the mix				
Eyes				ble on the mix				
Respiratory Sensitization	: There a	are no da	ata availal	ble on the mix	kture itse	lt.		
Product/ingredient name	Route of		Species			Resu	t	
	exposure							
pís-[4-(2,3-epoxipropoxi) phenyl]propane	skin		Mouse			Sensitizing		
oxirane, mono[skin Guine		Guinea p	big		Sensi	tizing	
(C12-14-alkyloxy)methyl] derivs.								
Conclusion/Summary								
Skin	: There a	: There are no data available on the mixture itself.						
Respiratory	: There are no data availat			ble on the mix	kture itse	lf.		
<u>Mutagenicity</u>								
Conclusion/Summary	: There a	are no da	ata availal	ole on the mix	kture itse	lf.		
Carcinogenicity								
Conclusion/Summary	: There a	are no da	ata availal	ble on the mix	kture itse	lf.		
Classification								
Product/ingredient name	OSHA	IARC	NTP					
ørystalline silica, respirable powder (<10 microns)	-	1	Know	n to be a hun	nan carci	nogen.		
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-					
titanium dioxide	-	2B	-					
xylene	-	3	-					
ethylbenzene	-	2B	-					
Carcinogen Classificatio	on code:							
IARC: 1, 2A, 2B, 3 NTP: Known to I OSHA: + Not listed/not reg	be a human c	arcinogen	ı; Reasonal	oly anticipated t	o be a hun	nan carc	inogen	
Reproductive toxicity								
Conclusion/Summary	: There a	are no da	ata availal	ble on the mix	kture itse	lf.		
Toratogonicity								

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

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SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs
maleic anhydride	Category 1	inhalation	respiratory system

Target organs

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

lungs, the nervous system, the reproductive system, heart, cardiovascular system, upper respiratory tract, immune system, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

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

Information on the likely routes of exposure

Potential acute health effe	ects
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: 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
[

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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 effe	and also chronic effects from short and long term exposure	
Conclusion/Summary	There are no data available on the mixture itself. This product contains crystal silica which can cause lung cancer or silicosis. The risk of cancer depends on duration and level of exposure to dust from sanding surfaces or mist from spra applications. For many products, TiO2 is utilized as a raw material in a liquid c formulation. In this case, the TiO2 particles are bound in a matrix with no mea potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure a require the use of appropriate personal protective equipment and/or engineerin controls (see Section 8). Exposure to component solvent vapor concentrations excess of the stated occupational exposure limit may result in adverse health e such as mucous membrane and respiratory system irritation and adverse effect 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 absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause great hearing loss than expected from exposure to noise alone. If splashed in the ey the liquid may cause irritation and reversible damage. Ingestion may cause na diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and term exposure by oral, inhalation and dermal routes of exposure and eye contains term exposure by oral, inhalation and dermal routes of exposure and eye contains term exposure by oral, inhalation and dermal routes of exposure and eye contains and term exposure by oral, inhalation and dermal routes of exposure and eye contains term exposure by oral, inhalation and dermal routes of exposure and eye contains	the by coating ningful and ng s in effects ots on by to ater yes, ausea, l long-
Short term exposure		
Potential immediate effects	There are no data available on the mixture itself.	
Potential delayed effects Long term exposure	There are no data available on the mixture itself.	
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 effe		
General	Causes damage to organs through prolonged or repeated exposure. Prolongerepeated contact can defat the skin and lead to irritation, cracking and/or dermonce sensitized, a severe allergic reaction may occur when subsequently export overy low levels.	natitis.
Carcinogenicity	May cause 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 toxi Acute toxicity estimates		

Product name SIGMAFAST 278 LIGHT GRAY 7035 RESIN

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/l)
SIGMAFAST 278 LIGHT GRAY 7035 RESIN	10646.7	6588.0	N/A	64.0	8.2
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100	N/A	N/A	N/A	N/A
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A
maleic anhydride	400	2620	N/A	N/A	N/A

SECTION 12: Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi)	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
oxirane, mono[LC50 >100 mg/l	Fish	96 hours
(C12-14-alkyloxy)methyl] derivs.	Ŭ		
Phenol, 2-nonyl-, branched	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-lif	e	Photolys	sis	Biodegradability
ቓis-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not readily
xylene ethylbenzene	-		-		Readily Readily

Bioaccumulative potential

Product name SIGMAFAST 278 LIGHT GRAY 7035 RESIN

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential	
-nonylphenol, branched	5.4	251.19	Low	
xylene	3.12	7.4 to 18.5	Low	
1-methoxy-2-propanol	<1	-	Low	
ethylbenzene	3.6	79.43	Low	
oxirane, mono[3.77	-	Low	
(C12-14-alkyloxy)methyl]				
derivs.				
maleic anhydride	-2.78	-	Low	

Mobility in soil

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

Other adverse effects	: No known significant effects or critical hazards.
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SECTION 13: Disposal considerations

n of waste should be avoided or minimized wherever possible. s product, solutions and any by-products should at all times comply ements of environmental protection and waste disposal legislation al local authority requirements. Dispose of surplus and non-
ducts via a licensed waste disposal contractor. Waste should not be treated to the sewer unless fully compliant with the requirements of with jurisdiction. Waste packaging should be recycled. Incineration or only be considered when recycling is not feasible. This material and ust be disposed of in a safe way. Care should be taken when ed containers that have not been cleaned or rinsed out. Empty ners may retain some product residues. Vapor from product residues ighly flammable or explosive atmosphere inside the container. Do r grind used containers unless they have been cleaned thoroughly id dispersal of spilled material and runoff and contact with soil,
ins 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

SECTION 14: Transport information

UN numberUN3470UN3470UN3470UN proper shipping namePAINT, CORROSIVE, FLAMMABLEPAINT, CORROSIVE, FLAMMABLEPAINT, CORROSIVE, FLAM PAINT, CORROSI	
shipping name8 (3)8 (3)8 (3)Transport hazard class(es)8 (3)8 (3)	
hazard class(es)	1MABLE
Packing group II II II II	
Environmental hazardsYes. The environmentally hazardous substance mark is not required.Yes.Yes. The environmentally hazardous substance mark is not required.	

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SECTION 14: Transport information

Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, 4-nonylphenol, branched)	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Mexico	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Transport in bulk according : Not applicable. to IMO instruments

SECTION 15: Regulatory information

Mexico

Classification

Flammability : 2 Health : 3 Reactivity : 0

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

SECTION 16: Other information

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

Health : 3 * Flammability : 2 Physical hazards : 0 (*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. 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.

Date of previous issue	: 5/18/2021
Organization that prepared the SDS	: EHS

Product name SIGMAFAST 278 LIGHT GRAY 7035 RESIN

SECTION 16: Other information

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

✓ Indicates information that has changed from previously issued version.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

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.