



GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Part #5060 High Solids Primer Surfacer/Sealer White

FIBRE GLAST DEVELOPMENTS CORP.
385 CARR DRIVE
BROOKVILLE, OH 45309

TELEPHONE: (937) 833-5200
FAX: (937) 833-6555
**FOR CHEMICAL EMERGENCY
CALL (801) 629-0667 24 HRS.**

RECOMMENDED USE: Industrial Applications.

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids : Category 2

Skin Irritation : Category 2

Eye Irritation : Category 2A

Skin Sensitization : Category 1

Carcinogenicity : Category 2

Toxic to Reproduction (Unborn child) : Category 2

Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation)
: Category 3

Specific Target Organ Toxicity (Repeated Exposure)
: Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 31.3% (Oral), 53.8% (Dermal), 52.9% (Inhalation)

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

GHS Label Element
Hazard pictograms



Signal word : Danger

Hazard statements : Highly Flammable liquid and vapor.
Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of damaging the unborn child.
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

: Store locked up. Store in a well-ventilated place. 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. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Product name : HIGH SOLIDS EPOXY PRIMER - WHITE

Ingredient name	%	CAS number
Epoxy Resin (MW \leq 700)	\geq 20 - \leq 50	25068-38-6
Limestone	\geq 10 - \leq 20	1317-65-3
4-chloro- α,α,α -trifluorotoluene	\geq 10 - \leq 20	98-56-6
Titanium dioxide	\geq 10 - \leq 20	13463-67-7
4-methylpentan-2-one	\geq 10 - \leq 15	108-10-1
Talc, not containing asbestiform fibres	\geq 1.0 - \leq 5.0	14807-96-6
3-butoxypropan-2-ol	\geq 1.0 - \leq 5.0	5131-66-8
Acetone	\geq 1.0 - \leq 5.0	67-64-1
Toluene	\geq 1.0 - \leq 5.0	108-88-3
Alpha, Alpha''-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	\geq 1.0 - \leq 5.0	Not available.

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** : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- 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 irritation.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes skin irritation. Defatting to the skin. May cause allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritaion
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Skin Contact** : Adverse symptoms may include the following:
irritation
redness
dryness
cracking
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No Specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing Media** : Use dry chemical, CO₂, 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds carbonyl halides 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 firefighters	: 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 should be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

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

Methods and materials for containment and cleaning up

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

Large Spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in a 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 not adequate. 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. May form explosive peroxides. Keep away from combustible materials. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). 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
Epoxy Resin (MW \leq 700) Limestone	None. OSHA PEL (United States, 2/2013). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
4-chloro-a,a,a-trifluorotoluene	IPEL (PPG). TWA: 25ppm
titanium dioxide	OSHA PEL (United States, 2/2013). TWA: 15 mg/m ³ 8 hours. Form: Total dust
4-methylpentan-2-one	ACGIH TLV (United States, 3/2015). TWA: 10 mg/m ³ 8 hours.
	ACGIH TLV (United States, 3/2015). STEL: 75 ppm 15 minutes. TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013). TWA: 410 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
Talc, not containing asbestiform fibres	ACGIH TLV (United States, 3/2015). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction
	OSHA PEL Z3 (United States, 2/2013). TWA 20 mppcf 8 hours. Form: not containing asbestos
3-butoxypropan-2-ol	IPEL (PPG). TWA: 50 ppm
acetone	ACGIH TLV (United States, 3/2015). STEL: 500 ppm 15 minutes. TWA: 250 ppm 8 hours.
	OSHA PEL (United States, 2/2013). TWA: 2400 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours.
	OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours
	ACGIH TLV (United States, 3/2015). TWA: 20 ppm 8 hours.
toluene	None. OSHA PEL Z3 (United States, 2/2013). TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form: Respirable
	Respirable TWA: 250 mppcf / (%SiO ₂ +5) 8 hours. Form: Respirable
	ACGIH TLV (United States, 3/2015). TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
Alpha, Alpha''-(1, 3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	None

Key to abbreviations

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

Consult local authorities for acceptable exposure limits.

Recommended monitoring

Procedures

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

Appropriate engineering

Controls

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

Environmental exposure

Controls

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

Individual protection measures

Hygiene measures

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

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

Appearance

Physical state	: Liquid
Color	: Not available.
Odor	: Not available.
Odor Threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Boiling Point	: >37.78°C (>100°F)
Flash point	: Closed cup: 18.33°C (65°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid,gas)	: Not available.
Lower and upper explosion (flammable) limits	: Lower: 1.6%
Evaporation rate	: 1.32 (butyl acetate = 1)
Vapor pressure	: 4.6 kPa (34.7 mm Hg) [room temperature]
Vapor density	: Not available.
Relative density	: 1.47
Density (lbs/gal)	: 12.27
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: Noctanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm ² /s (>21 cSt)
Volatility	: 44% (v/v), 30.25% (w/w)
% Solid. (w/w)	: 69.75

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
Epoxy resin (MW < 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
4-chloro- α,α,α -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
Titanium dioxide	LD50 Oral	Rat	13 g/kg	-
	LD50 Oral	Rat	>11 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/m ³	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-
	LD50 Oral	Rat	2.2 g/kg	-
Acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	15.8 g/kg	-
toluene	LD50 Oral	Rat	5800 g/kg	-
	LC50 Inhalation Vapor	Rat	49 g/m ³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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

Irritation/Corrosion

Conclusion/Summary

Skin

: There is no data available on the mixture itself.

Eyes

: There is no data available on the mixture itself.

Respiratory

: There is no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin

: There is no data available on the mixture itself.

Respiratory

: There is no data available on the mixture itself.

Mutagenicity

Conclusion/Summary

: There is no data available on the mixture itself.

Carcinogenicity

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

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium dioxide	-	2B	-
4-methylpentan-2-one	-	2B	-
Toluene	-	3	-

Carcinogen Classificationcode:

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 is no data available on the mixture itself.

Teratogenicity

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

Specific target organ toxicity (single exposure)

Name	Category
4-chloro- <i>o,o,o</i> -trifluorotoluene	Category 3
4-methylpentan-2-one	Category 3
Talc, not containing asbestiform fibres	Category 3
acetone	Category 3
toluene	Category 3
Alpha, Alpha''-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
Toluene	Category 2
Crystalline silica, respirable powder (<10 microns)	Category 1

Target organs

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

Aspiration hazard

Name	Result
toluene	ASPIRATION HAZARD – Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : May cause respiratory irritation.
Skin contact : Defatting to the skin. Causes skin irritation. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
 pain or irritation
 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:

irritation
 redness
 dryness
 cracking
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Ingestion

: Adverse symptoms may include the following:
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

Delayed and immediate effects and also chronic effects from short- and long-term exposure Conclusion/Summary

: There are no data available on the mixture itself. 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 TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

Potential immediate effects

: There is no data available on the mixture itself.

Potential delayed effects

: There is no data available on the mixture itself.

Long term exposure

Potential immediate effects

: There is no data available on the mixture itself.

Potential delayed effects

: There is no data available on the mixture itself.

Potential chronic health effects

General

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

Carcinogenicity

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

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: Suspected of damaging the unborn child.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
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Oral	11718.5 mg/kg mg/kg
Dermal	69640.1 mg/kg mg/kg
Inhalation (gases)	20690.6 ppm
Inhalation (vapors)	56.55 mg/l
Inhalation (dusts and mists)	6.897 mg/l

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
Epoxy Resin (MW ≤ 700)	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Titanium dioxide	Acute LC50>100mg/l Fresh water	Daphnia – Daphnia magna	48 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5% - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Acetone	-	-	Readily
Epoxy Resin (MW ≤ 700)	-	-	Not Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
4-methylpentan-2-one	1.31	-	low
3-butoxypropan-2-ol	1.15	-	low
acetone	-.24	3	low
toluene	2.73	8.32	low

Mobility in soil:

Soil/water partition
Coefficient (K_{oc})

: Not available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products

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

Disposal should be in accordance with the 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 measures

SECTION 14 - TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN number	1263	1263	1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	Yes.	No.
Marine pollutant substances	Not applicable.	(Epoxy resin (MW \leq 700), trizinc bis(orthophosphate)).	Not applicable.
Product RQ (lbs)	48620.7	Not applicable.	Not applicable.
RQ substances	(4-methylpentan-2-one)	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 5kg.

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

SECTION 15 – REGULATORY INFORMATION

United States

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

U.S. Federal regulations :

SARA 302/304**SARA 304 RQ**

: Not applicable

Composition/information on ingredients

No products were found.

SARA 311/312**Classification**

: Flammable Liquids – Category 2
 Skin Irritation – Category 2
 Eye Irritation – Category 2A
 Skin Sensitization – Category 1
 Carcinogenicity- Category 2
 Toxic to Reproduction (Unborn Child) – Category 2
 Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation)- Category3
 Specific Target Organ Toxicity (Repeated Exposure) – Category 2
 HNOC – Defatting irritant

Composition/information on ingredients

Name	%	Classification
Epoxy Resin (MW < 700)	≥ 20 - ≤ 50	Skin Irritation – Category 2 Eye Irritation – Category 2A
4-chloro- α,α,α -trifluorotoluene	≥ 10 - ≤ 20	Skin Sensitization – Category 1B Flammable Liquids – Category 3 Skin Irritation – Category 2 Eye Irritation – Category 2A Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) – Category 3 HNOC – Defatting irritant
Titanium dioxide	≥ 10 - ≤ 20	Carcinogenicity – Category 2
4-methylpentan-2-one	≥ 5.0 - ≤ 10	Flammable Liquids – Category 2 Acute Toxicity (inhalation) – Category 4 Eye Irritation – Category 2A Carcinogenicity – Category 2 Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) – Category 3 HNOC – Defatting irritant
Talc, not containing asbestiform fibres	≥ 1.0 - ≤ 5.0	Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) – Category 3
3-butoxypropan-2-ol	≥ 1.0 - ≤ 5.0	Flammable Liquids – Category 4 Skin Irritation – Category 2 Eye Irritation – Category 2A
Acetone	≥ 1.0 - ≤ 5.0	Flammable Liquids – Category 2 Eye Irritation – Category 2A Specific Target Organ Toxicity (Single Exposure) (Narcotic effects) – Category 3 HNOC – Defatting irritant
Toluene	≥ 1.0 - ≤ 5.0	Flammable Liquids – Category 2 Skin Irritation – Category 2 Toxic to Reproduction (Unborn Child) – 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
Alpha, Alpha''-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	≥ 1.0 - ≤ 5.0	Combustible Dusts Eye Irritation – Category 2A Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) – Category 3

SARA 313**Chemical name****CAS number****Concentration****Supplier notification:**

4-methylpentan-2-one

108-10-1

7-13

toluene	108-88-3	0.5-1.5
trizinc bis(orthophosphate)	7779-90-0	5-10

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

California Prop. 65

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

SECTION 16 – OTHER INFORMATION

Revision Date
August 29, 2019

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

Health : 2 * Flammability : 3 Physical hazards : 0

National Fire Protection Association (U.S.A.)

Health : 2 Flammability : 3 Instability : 0

The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with **Fibre Glast Developments Corporation** or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.