

GHS SAFETY DATA SHEET (SDS)

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PART #683 Maxguard™ WG-LEI-5555 WHITE GELCOAT

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 Chemical

SECTION 2 - HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Combustible Dust

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system)

Specific target organ toxicity

- repeated exposure

(Inhalation)

: Category 1 (Auditory system)

GHS label elements

Hazard pictograms







Signal Word : Danger

Hazard Statements : Flammable liquid and vapor.

May form combustible dust concentrations in air.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

Causes damage to organs (Auditory system) through prolonged

or repeated exposure if inhaled.

Precautionary Statements

: Prevention:

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe mist or vapors.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/ eye protection/ face protection.

Keep dust/air mixtures away from ignition sources.

Hazardous polymerization can occur under certain conditions. Avoid excessive heat, direct sunlight, peroxides, and other polymerization catalysts. Store in a cool place and maintain

proper concentrations of inhibitor and oxygen.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Static Accumulating liquid Hazardous polymerization may occur.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Static Accumulator

Chemical nature : Defatter

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Styrene	100-42-5	Flam. Liq. 3; H226	25.3162
		Acute Tox. 4; H332	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335	
		STOT RE 1; H372	
		Asp. Tox. 1; H304	
TITANIUM DIOXIDE (TIO2)	13463-67-7	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	17.82

TALC	14807-96-6	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	6.00
ALUMINUM HYDROXIDE	21645-51-2	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	5.0851
METHYLMETHACRYLATE	80-62-6	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1B; H317 STOT SE 3; H335	3.00
SILICA AMORPHOUS (SIO2)	7631-86-9	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012)	1.5007
SILICA COLLOIDAL AMORPHOUS	112945-52-5	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	1.50
FATTY ACIDS, C14-18 AND C16- 18 UNSATD., MALEATED	85711-46-2	Skin Irrit. 2; H315 Skin Sens. 1; H317	0.1999

SECTION 4 - FIRST AID MEASURES

General advice : Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Move to fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : Obtain medical attention.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough Headache

effects on memory loss of appetite Shortness of breath

confusion

pain in the hands and feet Difficulty in breathing Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

Causes damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : No hazards which require special first aid measures.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing

media

: Use extinguishing measures that are appropriate

to local circumstances and the surrounding

environment. Water spray Foam

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable

extinguishing media

: High volume water jet

Specific hazards during firefighting : Organic dusts at sufficient concentration can form

explosive mixtures in air.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low

Do not allow run-off from fire fighting to enter drains

or water courses.

Hazardous combustion products

: Carbon dioxide (CO2) Carbon monoxide Hydrocarbons Metal oxides Burning produces

noxious and toxic fumes.

Specific extinguishing methods

Product is compatible with standard fire-fighting agents.

Further information

Do not use a solid water stream as it may scatter and

spread fire.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

Polymerization will take place under fire conditions. If polymerization occurs in a closed container, there is a possibility it will rupture violently. Cool storage

container with water, if exposed to fire.

Special protective equipment for firefighters

: In the event of fire, wear self-contained breathing

apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Remove all sources of ignition.

Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been

completed.

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains

inform respective authorities.

Methods and materials for containment and cleaning

up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water

spray jet.

SECTION 7 - HANDLING AND STORAGE

Advice on protection against fire and explosion Take necessary action to avoid static electricity discharge (which might cause ignition of organic

vapourš).

No sparking tools should be used.

Keep away from open flames, hot surfaces and sources of ignition.

Use only explosion-proof equipment.

Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Advice on safe handling

Open drum carefully as content may be under pressure. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work

rooms. Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Container hazardous when empty.

Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Avoid contact with skin

and eyes.
Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8. Dispose of rinse water in accordance with local and

national regulations.
Secondary operations, such as grinding and sanding, may produce dust.

Maintain good housekeeping. Do not permit dust

layers to

accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: "Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids".

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions. No smoking.

Further information on storage stability

: No decomposition if stored and applied as directed.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components with workpla		rameters	T=	T
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Styrene	100-42-5	TWA	50 ppm 215 mg/m3	NIOSH REL
		ST	100 ppm 425 mg/m3	NIOSH REL
		TWA	100 ppm	OSHA Z-2
		CEIL	200 ppm	OSHA Z-2
		Peak	600 ppm	OSHA Z-2
		TWA	50 ppm 215 mg/m3	OSHA P0
		STEL	100 ppm 425 mg/m3	OSHA P0
		С	500 ppm	CAL PEL
		PEL	50 ppm 215 mg/m3	CAL PEL
		STEL	100 ppm 425 mg/m3	CAL PEL
		TWA	10 ppm	ACGIH
		STEL	20 ppm	ACGIH
TITANIUM DIOXIDE (TIO2)	13463-67-7	TWA	15 mg/m3 total dust	OSHA Z-1
		TWA	10 mg/m3 Total dust	OSHA P0
		PEL	10 mg/m3 Total dust (Titaniu m)	CAL PEL
		PEL	5 mg/m3 respirable dust fraction (Titanium)	CAL PEL
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

TALC	14807-96-6	TWA	20 Million particles per cubic foot Dust	OSHA Z-3
		TWA	2 mg/m3 respirable dust fraction	OSHA P0
		TWA	2 mg/m3 Respirabl e	NIOSH REL
		PEL	2 mg/m3 Respirable dust	CAL PEL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA	2 mg/m3 Respirable particulate matter	ACGIH
ALUMINUM HYDROXIDE	21645-51-2	TWA	1 mg/m3 Respirable particulate matter (Aluminium)	ACGIH
METHYLMETHACRYLATE	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m3	NIOSH REL
		TWA	100 ppm 410 mg/m3	OSHA Z-1
		TWA	100 ppm 410 mg/m3	OSHA PO
		PEL	50 ppm 205 mg/m3	CAL PEL
		STEL	100 ppm 410 mg/m3	CAL PEL
SILICA AMORPHOUS (SIO2)	7631-86-9	TWA	20 Million particles per cubic foot Dust (Silica	OSHA Z-3
		TWA	80 mg/m3 / %SiO2 Dust (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL

		PEL	6 mg/m3	CAL PEL
SILICA COLLOIDAL AMORPHOUS	112945-52- 5	TWA	20 Million particles per cubic foot Dust (Silica)	OSHA Z-3
		TWA	80 mg/m3 / %SiO2 Dust (Silica)	OSHA Z-3
		TWA	6 mg/m3 (Silica)	NIOSH REL
		PEL	6 mg/m3	CAL PEL
ETHYL BENZENE	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		-	175 ppm	NACH PE
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA PO

	STEL	125 ppm 545 mg/m3	OSHA PO
	PEL	5 ppm 22 mg/m3	CAL PEL
	STEL	30 ppm 130 mg/m3	CAL PEL

Hazardous components without workplace control parameters

Components	CAS-No.
FATTY ACIDS, C14-18 AND	85711-46-2
C16-18 UNSATD.,	
MALEATED	

Biological occupational exposure limits

	Biological occupation	onai expos					
	Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissibl e concentra ti on	Basis
	Styrene	100-42-5	Mandelic acid plus phenylglyo x	Urine	End of shift (As soon as	400 mg/g Creatinine	ZUS_ A CGIHB
			ylic acid		possible after exposur e ceases)		
ſ	Remarks:	Nonspecifi	С				
			Styrene	Urine	End of shift (As soon as possible after exposure ceases)	40 μg/l	ZUS_A CGIHB

Engineering measures

: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or

apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection In the case of vapour formation use a respirator

with an approved filter.

: Organic vapour type Filter type

Hand protection

Material : Laminate (AlphaTec® 02-100 (formerly

> Barrier®) or Silvershield®)

Break through time Glove thickness

480 min > 0.5 mm

Remarks

The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if

there is any indication of

degradation or chemical breakthrough.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or

Skin and body

protection

Wear as appropriate: Impervious clothing Safety

shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or

signs of wear.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures Wash hands before breaks and at the end of

workday. When using do not eat or drink.

When using do not smoke.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liauid Colour : white

Odour solvent-

like

Odour Threshold No data

available

pН No data

available

Melting point/freezing

point

: No data available Relative vapour density : No data

available

Relative density : No data

available

1.078 g/cm3 (25 Density

°C)

Solubility(ies)

Water solubitly : insoluble

Solubility in other

solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data

available

Viscosity

Viscosity, dynamic

No data available

Viscosity, kinematic

> 20.5 mm2/s (40 °C)

Oxidizing properties

: No data available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

Hazardous polymerisation may occur. Vapours may form explosive mixture with air. This product does not present a dust explosion hazard as delivered. However, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.

Conditions to avoid

Exposure to air. Exposure to sunlight. Exposure to moisture

Heat, flames and sparks.

Incompatible materials : Acids

aluminum aluminum chloride Amines **Bases** Copper Copper alloys fluorides halogens iron chloride metal salts nitrates reducing agents strong

Strong oxidizing agents UV light. Peroxides

bases

Hazardous decomposition products

Carbon monoxide Carbon dioxide (CO2) Hydrocarbons Acetone

aluminum oxides

SECTION 11 - TOXICOLOGY INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

Styrene:

Acute oral toxicity : LD50 (Rat): > 2,000

mg/kg

Acute inhalation toxicity : LC50 (Rat): 11.8 mg/l, 27

LC50 (Rat): 11.8 mg/l, 2770 ppm Exposure time: 4 h Test atmosphere: vapour

No observed adverse effect level (Humans): 100 ppm

Exposure time: 7 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2,000

mg/kg

Method: OECD Test Guideline 402

Assessment: No adverse effect has been observed in acute dermal

toxicity tests.

TITANIUM DIOXIDE (TIO2):

Acute oral toxicity : LD50 (Rat): > 24,000

mg/kg

LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Acute inhalation toxicity

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by

inhalation under GHS.

Acute dermal toxicity : LD50 (Rabbit): > 10,000

mg/kg

TALC:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline

423

ALUMINUM HYDROXIDE:

: LD50 (Rat): > 5,000 Acute oral toxicity

mg/kg

LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test

Guideline 423 GLP: yes

Assessment: No adverse effect has been observed in acute

oral toxicity tests.

LC50 (Rat): > 2.3 mg/l Exposure time: 4 h Acute inhalation toxicity

Test atmosphere: dust/mist

Assessment: Not classified as acutely toxic by inhalation under GHS.

Remarks: Information given is based on data

obtained from similar substances.

METHYLMETHACRYLATE:

Acute oral toxicity : LD50 (Rat): 7,800

mg/kg

Acute inhalation toxicity

LC50 (Rat): 29.8 mg/l Exposure time: 4 h Test atmosphere:

vapour

Acute dermal toxicity : LD50 (Rabbit): > 5,000

mg/kg

SILICA AMORPHOUS (SIO2):

Acute oral toxicity

LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline

401 GLP: yes

Acute inhalation toxicity

LC50 (Rat): > 2.08 mg/l Exposure time: 4 h

Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes

Assessment: No adverse effect has been observed in

acute inhalation toxicity tests.

Acute dermal toxicity

: LD50 (Rabbit): > 5,000

mg/kg

SILICA COLLOIDAL AMORPHOUS:

: LD50 (Rat): > 5,000 Acute oral toxicity

mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: Not classified as acutely toxic by

dermal absorption under GHS.

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline

401

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Remarks: Individuals with direct skin contact with methyl methacrylate have experienced temporary loss of feeling and mild nerve damage in the fingers.

Remarks: May cause skin irritation and/or dermatitis.

Components:

Styrene: Species: Rabbit

Result: Irritating to skin.

Species: human skin Result: No skin irritation

TITANIUM DIOXIDE (TIO2):

Result: Slight, transient irritation

TALC:

Species: reconstructed human epidermis (RhE)

Result: No skin irritation

ALUMINUM HYDROXIDE:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

METHYLMETHACRYLATE:

Result: Irritating to skin.

SILICA AMORPHOUS (SIO2):

Result: Slight, transient irritation

SILICA COLLOIDAL AMORPHOUS:

Result: No skin irritation

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

Styrene:

Result: Irritating to eyes.

Remarks: Vapour during processing may be irritating to the respiratory tract and to the eyes.

TITANIUM DIOXIDE (TIO2):

Result: Slight, transient irritation

TALC:

Species: Rabbit

Result: Slight, transient irritation Method: OECD Test Guideline 405

ALUMINUM HYDROXIDE:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

METHYLMETHACRYLATE:

Result: Slight, transient irritation

SILICA AMORPHOUS (SIO2):

Result: Slight, transient irritation

SILICA COLLOIDAL AMORPHOUS:

Result: No eye irritation

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

Styrene:

Exposure routes: Skin contact

Species: Guinea pig Assessment: Does not cause skin sensitisation. Result: negative

Exposure routes: inhalation (vapour) Species: Humans

Assessment: Does not cause respiratory

sensitisation. Result: negative

TALC:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals. Method:

OECD Test Guideline 406

ALUMINUM HYDROXIDE:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals. Method:

OECD Test Guideline 406

GLP: yes

METHYLMETHACRYLATE:

Test Type: Local lymph node assay

Species: Mouse

Method: OECD Test Guideline 429

Result: The product is a skin sensitiser, sub-category 1B.

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Test Type: Local lymph node assay

Species: Mouse

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 429

Germ cell mutagenicity

Not classified based on available information.

Components:

TALC:

Genotoxicity in vitro

Test Type: In vitro gene mutation study in bacteria Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative

Test Type: In vitro gene mutation study in bacteria Test species: Saccharomyces

cerevisiae

Metabolic activation: with and without metabolic

activation Result: negative

Genotoxicity in vivo : Test Type: dominant lethal

test Test species: Rat

(male)

Cell type: Bone marrow

Result: negative

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Genotoxicity in vitro

Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity Assessment

Styrene has been tested for carcinogenicity in rats and mice. Styrene caused lung tumors in mice only. These tumors are not considered to be relevant to humans.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

Components:

Styrene:

Assessment: May cause respiratory irritation.

METHYLMETHACRYLATE:

Target Organs: Upper respiratory tract Assessment: May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled.

Components:

Styrene:

Exposure routes: inhalation (vapour) Target Organs: Auditory

system

Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity **Components:**

Styrene:

Species: Human 85 mg/m3

Application Route: inhalation (vapour)

Species: Human 615 mg/kg Application Route: Skin contact

Aspiration toxicity

Not classified based on available information.

Components:

Styrene:

May be fatal if swallowed and enters airways.

Further information Product:

Remarks: Solvents may degrease the skin.

Carcinogenicity: IARC

Group 2A: Probably carcinogenic to

humans

Styrene 100-42-

Group 2B: Possibly carcinogenic to humans

TITANIUM DIOXIDE (TIO2) 13463-67-7

ETHYL BENZENE 100-41-4

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. **OSHA**

NTP Reasonably anticipated to be a human carcinogen

100-42-5 Styrene

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Product:

Ecotoxicology Assessment

Short-term (acute)

aquatic hazard

: Acute aquatic toxicity Category 2; Toxic to

aquatic life.

Long-term (chronic)

aquatic hazard

: Chronic aquatic toxicity Category 3; Harmful to

aquatic life

with long lasting effects.

Components:

Styrene:

: LC50 (Pimephales promelas (fathead minnow)): Toxicity to fish

4.02 ma/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic

invertebrates

EC50 (Daphnia magna (Water flea)): 4.7 mg/l Exposure time: 48 h

: ErC50 (Pseudokirchneriella subcapitata (green algae)): 4.9 mg/l Toxicity to algae

Exposure time: 72 h

Toxicity to daphnia and

other aquatic invertebrates (Chronic toxicity) NOEC (Daphnia magna (Water flea)): 1.01 mg/l Exposure time: 21 d

Toxicity to bacteria : EC50 (activated sludge): ca. 500

mg/l

Exposure time: 0.5 h

Toxicity to soil dwelling

organiśms

NOEC (Eisenia fetida (earthworms)): 34 mg/kg Exposure time: 14 d

Method: OECD Test Guideline 207

TITANIUM DIOXIDE (TIO2):

Toxicity to daphnia and

other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h

Test Type: static test

METHYLMETHACRYLATE:

Toxicity to fish

LC50 (Pimephales promelas (fathead minnow)): 130 mg/l Exposure time: 96 h Method: static test

LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 69 mg/l Exposure time: 48 h

Test Type: flow-through test

: EC50 (Pseudokirchneriella subcapitata (algae)): > 110 mg/l Exposure time: 72 h Toxicity to algae

Test Type: static test

Toxicity to fish (Chronic toxicity)

LC50 (Danio rerio (zebra fish)): 33.7 mg/l Exposure time: 35 d

Test Type: flow-through test Method: OECD Test Guideline

210

Toxicity to daphnia and

other aquatic invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 37

mg/I Exposure time: 21 d Test Type: flow-through test Method: OECD Test Guideline

SILICA AMORPHOUS (SIO2):

Toxicity to fish

LC50 (Danio rerio (zebra fish)): > 10,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

GLP: yes

SILICA COLLOIDAL AMORPHOUS:

Toxicity to fish

: LC50 (Brachydanio rerio (zebrafish)): >

10,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

FATTY ACIDS, C14-18 AND C16-

18 UNSATD., MALEATED:

Toxicity to daphnia and

other aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 202

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata

(microalgae)): > 100 mg/l End point: Growth inhibition Exposure time:

72 h Test Type: static test Test substance: WAF

Method: OECD Test Guideline 201

Persistence and degradability Components:

Styrene:

Biodegradability : Result: Readily

biodegradable.

Biodegradation: > 60 % Exposure time: 10 d

TALC:

Biodegradability : Result: The methods for determining biodegradability

are not

applicable to inorganic substances.

METHYLMETHACRYLATE:

Result: Readily Biodegradability

biodegradable. Biodegradation: 94.3 % Exposure time: 14 d

Method: OECD Test Guideline

SILICA COLLOIDAL AMORPHOUS:

Biodegradability : Result: The methods for determining biodegradability

are not

applicable to inorganic substances.

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Biodegradability : Result: Not readily biodegradable

Biodegradation 40 % Exposure time 28 d

Method: OECD Test Guideline 301F

No data available

Bioaccumulative

potential **Components:**

Styrene:

Bioaccumulation : Bioconcentration factor (BCF): <

100

Partition coefficient: n-

octanol/water

: log Pow: 2.96 (25

METHYLMETHACRYLATE:

Partition coefficient: n-: log Pow: octanol/water 1.38

FATTY ACIDS, C14-18 AND C16-18 UNSATD., MALEATED:

Partition coefficient: n-: $\log Pow$: < 1 (25)

octanol/water °C)

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No data available

Mobility in

soil

Components

: Styrene:

Distribution among : Koc: environmental 352

compartments

No data

available Other

adverse effects **Product:** Additional ecological information

: An environmental hazard cannot be excluded in the

event of

unprofessional handling or disposal., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

Components:

Styrene:

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is

considered to be very persistent and very

bioaccumulating (vPvB).

METHYLMETHACRYLATE: Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very

bioaccumulating

(vPvB).

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods

The product should not be allowed to enter General advice

drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local,

state and federal regulations.

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty

drum.

SECTION 14 - TRANSPORT INFORMATION

Int	ernationa	al transport				
rea	ulations	REGULATION				
ID	NUMBER	PROPER SHIPPING NAME	*HAZAR D CLASS	SUBSIDIARY HAZARDS	PACKIN G GROUP	MARINE POLLUTANT / LTD. QTY.
MX	_DG					
UN	1866	RESIN SOLUTION	3		III	
		ATD TD ANGDODT 400	0.674.77.0.11	DAGGENGED		
UN	1866	NAL AIR TRANSPORT ASS Resin solution	3 3	PASSENGER	III	
	1000	resir solution	<u> </u>			
INTE	RNATION	NAL AIR TRANSPORT ASS	OCIATION -	CARGO		
UN	1866	Resin solution	3		III	
UN	1866	NAL MARITIME DANGERO RESIN SOLUTION	3		III	
TDG	INWT_C					
UN	1866	RESIN SOLUTION	3		III	
	_RAIL_C					
UN	1866	RESIN SOLUTION	3		III	
TDG_ UN	_ ROAD_C 1866	RESIN SOLUTION	3		III	
ON	1000	RESIN SOLUTION	J		111	
U.S.	DOT - INI	LAND WATERWAYS				
UN	1866	Resin solution	3		III	

UN	1866	Resin solution	3	III	

U.S. DOT - ROAD

UN	1866	Resin solution	3	III	

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15 - REGULATORY INFORMATION

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community

Right-to-Know Act CERCLA Reportable Quantity

Components	CAS-No.	Component	Calculated product
		(lbs)	(lbs)
Styrene	100-42-5	1000	3950

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 : Flammable (gases, aerosols, liquids, or solids) **Hazards** Combustible Dust

Hazard not otherwise classified (physical hazards) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skiň sensitisation

Specific target organ toxicity (single or repeated

exposure)

This material does not contain any components with a section 302 EHS TPQ. **SARA 302**

SARA 313 The following components are subject to reporting

> levels established by SARA Title III, Section 313: 100-42-5 25.31 % Styrene

METHYLMETHACRYLAT E	80-62-6	3.00 %
ETHYL BENZENE	100-41-4	0.15 %

California Prop. 65

WARNING: This product can expose you to chemicals including styrene, Titanium dioxide, ethylbenzene, Quartz, cumene, benzene, 1,4-dioxane, formaldehyde, acetaldehyde, ethylene oxide, methyl isobutyl ketone, naphthalene, a-methylstyrene, which is/are known to the State of California to cause cancer, and toluene, benzene, ethylene oxide, methyl isobutyl ketone, methanol, chloromethane, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TCSI : Not in compliance with the

inventory

TSCA : On or in compliance with the active portion of the

TSCA inventory

AIIC : Not in compliance with the

inventory

DSL : On the inventory, or in compliance with the

inventory

ENCS : Not in compliance with the

inventory

KECI : Not in compliance with the

inventory

PICCS : Not in compliance with the

inventory

IECSC : On the inventory, or in compliance with the

inventory

NZIoC : Not in compliance with the

inventory

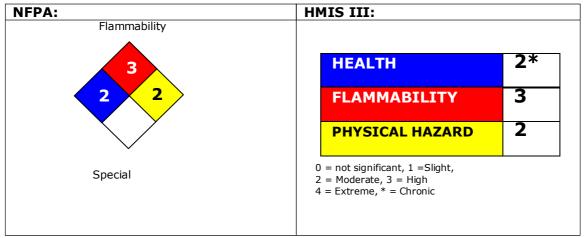
Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

SECTION 16 - OTHER INFORMATION

Revision Date

2/13/2023



NFPA Flammable and Combustible Liquids Classification

Flammable Liquid Class IC

Full text of H-Statements

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.

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.