



Safety Data Sheet Crystic 92PA Topcoat

Updated April 2021

1. Identification of the Material and Supplier

Product Name:	Crystic 92PA TOPCOAT
Product Code:	GC 92
UN Number:	1993
DG Class:	3
Shipping Name:	Flammable Liquid N.O.S. (Styrene)
Packaging Group:	III
Hazchem Code:	3Y
Intended Use:	Coating for GRP Products, Industrial Use
Company:	H S Composites Ltd
Address:	63 Hunua Road, Papakura, Auckland 2110
Telephone:	+64 (09) 295 2200
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2. Hazard Identification

Regulatory Information:

Additives, Process Chemicals and Raw Materials (Flammable, Acutely Toxic, Carcinogenic) Group Standard 2020, October 2020

HSNO Approval Number: HSR002498

Dangerous Goods Class: 3

HAZARDOUS CLASSIFICATIONS

Flammable Liquid	Category 3
Acutely Toxic (Oral)	Category 5
Acutely Toxic (Inhalation)	Category 4
Skin Corrosion/Irritant	Category 2
Serious Eye Damage/Irritation	Category 2
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 2
Reproductive Toxicity (Fertility)	Category 1
Reproductive Toxicity (Unborn Child)	Category 1
Specific Target Organ Toxicity (Single & Repeated Exposure)	Category 1

Specific Target Organ Toxicity (Respiratory Tract Irritation)	Category 3
Aquatic Toxicity	Category 2

Signal Word: **DANGER**

Pictograms:



Flammable



Irritant



Harmful



Aquatic Hazard

HEALTH HAZARDS

H226	Flammable Liquid and Vapour
H303	May be Harmful if Swallowed
H315	Causes Skin Irritation
H319	Causes Serious eye irritation
H332	Harmful if inhaled
H335	May Cause Respiratory Irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H370	Causes Damage to Organs
H372	Causes damage to organs through prolonged or repeated exposure

ENVIRONMENT HAZARDS

H401	Toxic to aquatic life.
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PRECAUTIONARY STATEMENTS

PREVENTION

P201	Obtain instruction before using this product, read Safety Data Sheet/Label
P202	Do Not handle until all safety precautions have been read and understood
P210	Keep away from ignition sources such as heat/sparks/open flame/hot surface. No smoking.
P233	Keep container tightly closed
P241	Use explosion proof equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe vapours
P264	Wash hands and exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or well-ventilated areas
P273	Avoid release into the environment
P280	Wear protective clothing, gloves and eye protection

RESPONSE

P101	If medical advice is needed, have product container or label at hand
P301+P330	IF SWALLOWED: Rinse out mouth, do not swallow water, DO NOT induce vomiting.
P307 + P311	IF exposed call POISON CENTRE or DOCTOR if you feel unwell
P302 + P352	If on skin or hair, wash with plenty of soap and water
P332 + P313	If skin irritation occurs, get medical advice
P362	Take off contaminated clothing and wash before reuse
P304 + P340 + P312	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Call for medical help if you feel unwell
P305 + P351 + P338	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so, continue to rinse
P337 + P313	If eye irritation persists seek medical advice
P308 + P313	If exposed or concerned seek medical advice
P314	Get medical advice if you feel unwell
P370 + P378	In case of fire use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish
P391	Collect any spillage

STORAGE

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P235	Keep cool.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P405	Store in a locked area

DISPOSAL

P501	Dispose of product and packaging in accordance with local and Governmental regulations
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Dangerous Goods Classification 3

Packing Group III

Hazchem Code 3Y

3. Composition / Information on Ingredients

Component	Cas No	Proportion
Styrene	100-42-5	≤42%
Titanium Oxide	13463-67-7	≥3.3%
Silica (fumed, cryst. Free)	112945-52-5	>2.1%
2,2-oxybisethanol	111-46-6	≥4.1%
Maleic anhydride	108-31-6	≥0.2%

4. First Aid Measures

**For advice, contact the National Poisons Centre (24hr Service)
(Phone New Zealand: 0800 764 766) or a doctor.**

If seeking medical attention show this Safety Data Sheet to the Doctor in attendance.

Inhalation: Move the person to fresh air immediately. Begin artificial respiration if breathing has stopped and get immediate medical assistance. Do not use mouth to mouth method if the victim has ingested or inhaled the substance, give artificial respiration with the aid of a pocket mask. If breathing is difficult only trained medical personnel should administer oxygen. Get immediate medical attention. Keep warm and at rest until recovered. Get medical advice if person feels unwell or is concerned.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin with soap and water. Material may cause an allergic skin reaction, if skin irritation develops or persists, get medical advice. Launder contaminated clothing before re-use.

Eye Contact: Rinse immediately with plenty of water also under the eyelids keeping them apart and flush the eye continuously with running water for at least 15 minutes. Remove contact lenses after 5 minutes if present, and easy to do. Continue flushing. Get immediate medical advice/attention if irritation persists.

Ingestion: If swallowed, DO NOT induce vomiting. Rinse mouth with water. Move out to fresh air keep at rest in a position that is comfortable for breathing. Get immediate medical attention. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. If material has been swallowed and the person is conscious give small quantities of water to drink. Any sign of vomiting, then stop giving any fluids, should vomiting occur keep head below waist to ensure vomit does not enter the lungs. If unconscious place in the recovery position, ensure to maintain an open airway.

Protection for First-Aider: Ensure that those giving assistance and medical personnel are aware of the materials involved, take precautions to protect yourself or any other personnel from contamination. Use PPE.

First Aid facilities: Provide eye baths and safety showers close to areas where splashing may occur.

Note to Doctor/Physician: Treat symptomatically. If a corrosive material, then the use of gastric lavage or emesis may be required.

5. Fire Fighting Measures

Flammable liquids and vapours: Shut off product that may 'fuel' a fire if safe to do so. Remove all persons from the immediate area, allow only trained personnel to attend a fire in progress, provide fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media: Water fog, foam, dry chemical or carbon dioxide (CO₂).
DO NOT use straight jet streams of water.

Hazards from combustion: Keep product and empty containers away from heat and sources of ignition. Run off from the fire area may create fire or an explosion hazard. In the event of a fire Keep surrounding containers cool by spraying with water. When burning the product may give off Smoke, fumes, metal oxides, carbon dioxide and carbon monoxide and incomplete combustion products. **Precautions for fire fighters and special protective equipment:** Full protective clothing and self-contained breathing apparatus with a full-face piece operated in positive pressure mode. Move

Poisons Information Centre call 0800 764 766 from anywhere in New Zealand (24hr)

other containers from the area if safe to do so without risk to yourself or others.

Hazchem Code: 3Y

Styrene will polymerise at elevated temperatures. If this occurs in a closed container there is a serious risk of violent rupture.

SPECIAL FIREFIGHTING PROCEDURES.

Fight like a fuel-oil fire. Water used in fire-fighting should not be allowed to enter sewers, drains, waterways or contaminate soil.

6. Accidental Release Measures

Steps to be taken if the material is released or spilled.

Wear the correct Personal Protection Equipment. See section 8 for requirements.

Stop leakage if safe to do so, do not put yourself in a position of harm or danger.

Eliminate all sources of ignition (flames, hot surfaces, electrical, static or frictional sparks).

Evacuate immediate area. Ventilate the surrounding area. Do not walk in spillage.

Contain the area of spillage, do not touch damaged containers unless wearing the correct PPE. If safe to do so material can be collected and placed in a container for disposal or recycling. Absorb remainder on the floor with sand, vermiculite or other non-combustible material. Place collected material in a closed container that is suitable for that product and label for disposal.

Prevent contamination of storm-water drains and waterways.

Waste disposal method. Through local waste management/disposal agent.

Contaminated absorbent to be disposed of in accordance with appropriate local or governmental regulations.

Correctly label all material containers to be disposed of and supply copy of SDS for that product.

Liquid material mixed with the appropriate hardener should be allowed to gel and cool before disposal as solid waste in accordance with appropriate local or national regulations or through a registered/licensed waste disposal contractor.

7. Handling and Storage

Wear correct PPE equipment when using material. Avoid inhalation of vapour and contact with skin, eyes and clothing. Use only with adequate ventilation. When entering storage areas be aware of vapour build up.

Keep away from children.

Wash skin with soapy water, launder contaminated clothing before re-use.

Wash hands/arms thoroughly after handling the product, before breaks and before eating.

This product is flammable and vapours are heavier than air. Isolate from all potential sources of ignition do not open near open flame, sources of heat or ignition, NO SMOKING.

Store in a locked and bunded area or approved flammable goods store away from direct heat (ideally below 30°C to prevent spoilage) and well ventilated. Keep containers tightly closed when not in use. Open drums slowly in case of internal pressure.

Store separate from oxidising materials, peroxides and metal salts.

8. Exposure Controls / Personal Protective Equipment (PPE)

Workplace Exposure Limit: Worksafe 2020

Component	Cas No	TWA
Styrene	100-42-5	20ppm
Titanium Oxide	13463-67-7	10mg/m ³
Maleic anhydride	108-31-6	0.0025ppm

Use general dilution or local exhaust ventilation to maintain vapour concentration below WES level in the work place. If concentrations exceed exposure limit use organic vapour canister mask or approved air-line mask.

Skin Protection: Wear overalls or other work clothing providing arm and leg cover. Use protective gloves (PVC are best, Latex or Nitrile).

Eye Protection: Safety goggles or face shield.



9. Physical / Chemical Properties

Physical Description & colour:	Thixotropic Liquid, cloudy pink
Odour:	of Styrene
Boiling Point:	145°C (Styrene)
Flammable Liquid Flash Point:	23 to 38°C
Evaporation Rate:	Not Available
Flammable Limits:	
LEL (lower explosive limit)	1.1%
UEL (upper explosive limit)	6.1%
Specific Gravity:	1.1 – 1.2
Percentage of Volatiles:	25%
Water Miscibility:	Immiscible in water
Marine Pollutant:	Yes

10. Stability and Reactivity

Stability: Under normal working conditions, good ventilation and providing the correct personal protection is worn then there should be no adverse effects.

Conditions to avoid: All possible sources of ignition, exposure to sunlight, open flames, contamination and prolonged storage above 25°C.

Materials to avoid: All oxidising materials.

Hazardous Polymerisation: May occur as result of high temperature or contamination, if burned, sealed containers may explode if hot, these products will evolve black, acrid smoke along with carbon monoxide, carbon dioxide and various organic compounds.

11. Toxicological Information

When used under properly controlled conditions with adequate ventilation, within workplace exposure limits and with adequate protective equipment, no adverse health effects are to be expected.

Inhalation of Vapour: When inhaled adverse symptoms may include respiratory tract irritation and coughing. May also include reduced foetal weight, increase in foetal deaths and skeletal malformations.

Eye Contact: Adverse symptoms may include pain or irritation, watering and/or redness.

Skin Contact: Adverse symptoms may include irritation, redness of the skin. May also include reduced foetal weight, increase in foetal deaths and skeletal malformations.

If Swallowed: Adverse symptoms may include reduced foetal weight, increase in foetal deaths and skeletal malformations.

Chronic effects of overexposure:

Mild dermatitis may result from prolonged or repeated skin contact. Styrene can be absorbed through the skin. Seek medical advice should this occur.

Excessive exposure to the liquid material or vapour may affect the central nervous system, the liver, kidneys and respiratory system.

12. Ecological Information

Prevent these products from entering storm-water drains sewers or waterways. Styrene is the major contaminant hazard in these formulations and it will undergo slow (but near complete) biodegradation in contact with soil. Styrene vapour degrades rapidly in the atmosphere.

Styrene floats on water and will vaporise and biodegrade.

Toxic to aquatic organisms.

H401

Toxic to aquatic life.

13. Disposal Considerations

Waste Disposal: Small quantities of this products may be mixed with appropriate amounts of polymerization initiators (catalyst) and allowed to cool and solidify before disposal as solid waste. Recover or recycle if possible.

This material and its container must be disposed of as hazardous waste.

Any disposal must be labelled (See section 14) as such and comply with applicable local, regional and national regulations. Ensure that these materials do not enter drains, sewers or waterways. Ensure that empty packaging is managed in accordance with Dangerous Goods and HSNO regulations.

P501

Dispose of product and packaging in accordance with local regulations

14. Transport Information

UN Number:	1866
Proper Shipping Name:	Resin Solution (Flammable)
Description:	Viscous Liquid
Hazchem Class:	3
Hazchem Code:	3Y
Packing Group:	III
IMDG Code:	3
Tunnel Restriction:	D
ERG Code:	127
EMS Code:	F-E, S-E
Environmental Hazard:	Marine Pollutant - YES

15. Regulatory Information

EPA New Zealand HSNO approval code HSR002498

Additives, Process Chemicals and Raw Materials (Flammable, Acutely Toxic, Carcinogenic) Group Standard 2020, October 2020

NZ Inventory of Chemicals – All listed

SDS To be available within 10 minutes when required.

A current Location Compliance Certificate is required for this product when storing quantities over the following quantity.

Hazard Classification HSNO number	Product	Quantity more than
HSR002498	Crystic Gelcoat 92PA	500ltr

Websites that will be of assistance regarding Hazardous

Substances: <https://www.hazardoussubstances.govt.nz/calculator>

<http://www.hazardoussubstances.govt.nz/>

<https://www.worksafe.govt.nz/topic-and-industry/hazardous-substances/guidance/hazardous-substances-that-activate-key-safety-controls/>

16. Other Information

This SDS contains only safety-related information. For other data see product information literature.

Fire/Ambulance/Police NZ 111

Cas # Unique number identifier of chemical substance information

Poisons Information Centre call 0800 764 766 from anywhere in New Zealand (24hr)

STEL	Short term exposure limit, maximum airborne concentration to which a worker may be exposed to in any 15-minute period, provided the TWA is not exceeded
TWA	Time Weighted Average, maximum exposure allowed in an 8-hour period
UN Number	United Nation Number assigned to Dangerous Goods
EPA	Environmental Protection Agency
IMDG	International Maritime Dangerous Goods Class Code
LEL	Lower explosive limit
UEL	Upper explosive limit
ppm	parts per million
mg/m ³	milligrams per cubic mtr
EMS	Emergency response for shipping
ERG	Emergency code for first responders
STOT	Specific Target Organ Toxicity
Other References	Manufacturers/Supplier SDS's

Review:

Reason: Updates, pictograms & GHS Coding

Disclaimer: The information given in this safety data sheet is given in good faith and is believed to be valid and accurate at the time of publication. However, no responsibility is accepted for accident or injury which may occur from omissions or from information contained in the data sheet.

HS Composites