



GHS SAFETY DATA SHEET (SDS)

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PART #90 - Isophthalic Polyester Resin

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

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Flammable liquid and vapor. Avoid eye contact with vapor, spray or mist. Avoid skin contact. Avoid breathing vapors. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. HARMFUL IF SWALLOWED. Also harmful by inhalation and in contact with skin. May cause sensitization by inhalation and skin contact. Risk of serious damage to the lungs (by aspiration).

GHS Classification

Carc. 1B, Eye Irrit. 2A, Flam. Liq. 3, Muta. 1B, Skin Irrit. 2, Skin Sens. 1, STOT RE 1, STOT SE 3 NE, STOT SE 3 RTI

Symbol(s) of Product



Signal Word

Danger

GHS HAZARD STATEMENTS

Flammable Liquid, category 3

Skin Irritation, category 2

Skin Sensitizer, category 1

Eye Irritation, category 2A

H226

H315

H317

H319

Flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

| | | |
|--|------|---|
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness. |
| Germ Cell Mutagenicity, category 1B | H340 | May cause genetic defects. |
| Carcinogenicity, category 1B | H350 | May cause cancer. |
| STOT, repeated exposure, category 1 | H372 | Causes damage to organs through prolonged or repeated exposure. |

GHS LABEL PRECAUTIONARY STATEMENTS

| | |
|----------------|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P264 | Wash ... thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281 | Use personal protective equipment as required. |
| P321 | Specific treatment (see ... on this label). |
| P501 | Dispose of contents/container to in accordance with local/regional/national/international regulations. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P341 | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use dry chemical, foam, water spray to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P201 | Obtain special instructions before use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P403+P235 | Store in a well-ventilated place. Keep cool |

GHS SDS PRECAUTIONARY STATEMENTS

| | |
|------|---|
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/.../ equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P270 | Do not eat, drink or smoke when using this product. |
| P363 | Wash contaminated clothing before reuse |

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>CAS-No.</u> | <u>Wt. %</u> |
|----------------------|----------------|--------------|
| Styrene | 100-42-5 | 40 - 50 |
| Ligroine | 8032-32-4 | 0.1-1.0 |

SECTION 4 – FIRST AID MEASURES

FIRST AID - EYE CONTACT: Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If symptoms persist, call a physician.

FIRST AID - INGESTION: If ingested, consult a physician. Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Aspiration hazard if swallowed - can enter lungs and cause damage.

FIRST AID - INHALATION: Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention. Remove to fresh air. If not breathing, administer CPR until help arrives or the victim starts to breathe on his own. If breathing is difficult, give oxygen. Seek medical attention immediately.

FIRST AID - SKIN CONTACT: Immediately flush with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention immediately. Wash thoroughly after handling. Wash with soap and water. Remove contaminated clothes and shoes. Get medical attention if irritation develops.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media: Suitable

Not suitable Carbon Dioxide, Dry Chemical, Foam, Water Fog Water Jet

SPECIAL FIREFIGHTING PROCEDURES: Use full protective clothing. Use a properly-fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear full protective gear & SCBA. Vapors may be ignited by heat, pilot lights, other flames and ignition sources. Do not use a solid water stream as it may scatter and spread fire. Cool containers / tanks with water spray. Self-accelerating decomposition may occur if the specific control temperature is not maintained. Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Container may rupture on heating

SECTION 6 – ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL MEASURES: 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). Prevent entry into waterways, sewers, basements or confined areas.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container. Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a

container for disposal according to local / national regulations (see section 13). Try to prevent the material from entering drains or water courses. 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). Use non-sparking tools and equipment. Avoid breathing vapors or mists.

PRECAUTIONARY MEASURES: Put on appropriate personal protective equipment (see Section 8). Do not touch or walk through spilled material. 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).

SECTION 7 – HANDLING AND STORAGE



HANDLING: Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Do not leave containers open. Avoid repeated or prolonged contact with skin. Empty containers retain product residue. Observe all safety precautions. Do not reuse containers. Wear personal protective equipment. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Do not breathe vapors, mist or gas. Ground/bond container and equipment. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse.

STORAGE: Keep away from oxidizers, heat, or flames. Keep in cool, dry, ventilated storage and in closed containers. Store away from all ignition sources. Ground all containers during transfer. Store in a cool, dry place. Protect from damage. Store away from flame and ignition sources. Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor. Do not store with incompatible materials. Store in upright position only. Keep container closed when not in use. Store and dispose according to national, state and local regulations. Store in cool well-ventilated space away from incompatible materials. Store contents under 100F (37.8C). Store drums with bung in the upright position. Electrical equipment must be grounded; suitable for the classification of the area where it is installed and conform to the National Electric Code (see NFPA 70).

HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. General industrial hygiene practice. Wash hands before eating, drinking, or smoking.

WORK PRACTICES: Put on appropriate personal protective equipment. Wash hands after handling chemicals and before eating, drinking, or smoking. Read and understand entire SDS before handling chemical.

SPECIAL HANDLING PROCEDURES: Put on appropriate personal protective equipment. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Follow US NFPA 30, "Flammable and Combustible Liquids Code", or other national, state and local codes on safe handling of flammable liquids. Train workers in the recognition and prevention of hazards associated with the storage, handling, and transfer of flammable liquids in the plant. Empty containers retain product residue and can be hazardous.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with Occupational Exposure Limits

| <u>Chemical Name</u> | <u>ACGIH TLV-TWA</u> | <u>ACGIH-TLV STEL</u> | <u>OSHA PEL-TWA</u> | <u>OSHA CEILING</u> |
|----------------------|----------------------|-----------------------|---------------------|-------------------------|
| Styrene | 10 ppm | 20 ppm | 100 ppm | 200 ppm |
| Ligroine | N.E. | N.E. | N.E. | N.E. |

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP =
Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established

Personal Protection

RESPIRATORY PROTECTION: When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breathing Apparatus (SCBA) may be necessary. Use a properly-fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

SKIN PROTECTION: Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact. Impervious gloves. Wear suitable protective equipment. Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate

EYE PROTECTION: Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields. Avoid contact with eyes. Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to splashing or spraying of material

OTHER PROTECTIVE EQUIPMENT: Use good hygiene practices. Wash face and hands before eating, drinking, and smoking. Eye wash and safety showers should be readily available

HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing. General industrial hygiene practice. Wash hands before eating, drinking, or smoking

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------|--------------------------|---|--------------------------|
| Color: | Amber | Physical State: | Liquid |
| Odor: | Styrene | Odor Threshold: | No Information Available |
| Density, g/cm3: | 1.065 | pH: | No Information Available |
| Freeze Point, °C: | No Information Available | Viscosity: | No Information Available |
| Solubility in Water: | Insoluble | Partition Coefficient, n-octanol/ water: | No Information Available |

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution. Stable under normal conditions. This material is stable under normal storage and handling conditions.

CONDITIONS TO AVOID: Burning may produce obnoxious and toxic fumes. Hazardous polymerization may occur. High temperatures, sparks, open flame, and all other sources of ignition. Avoid heat, sparks, flames and other ignition sources. Keep product away from heat, sparks, pilot lights, static electricity, and open flame. Avoid improper addition of promotor and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If adding accelerator like cobalt drier, mix accelerator with base material before adding catalyst.

INCOMPATIBILITY: Keep away from strong oxidizing agents. Copper. Strong acids. Strong oxidizing and reducing agents. Free radical initiators. Metal salts.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use. No dangerous reaction known under conditions of normal use.

SECTION 11 – TOXICOLOGY INFORMATION



Practical Experiences

EFFECT OF OVEREXPOSURE - EYE CONTACT: Exposure may cause mild irritation. Symptoms may include stinging, tearing, and redness. Moderate irritation including redness, swelling, pain, tearing and hazy vision. May cause irritation, discomfort, reddening and tearing.

EFFECT OF OVEREXPOSURE - INGESTION: May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. May cause irritation of the respiratory tract and CNS effects such as dizziness, headaches, nausea and narcosis.

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation of high concentrations may cause headache, nausea, and dizziness. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. Ingestion of large doses may cause headaches, dizziness, nausea, vomiting, and drowsiness. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effect, such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Irritating to skin.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Prolonged contact may cause irritation and/or redness. Prolonged skin contact may defat the skin and produce dermatitis.

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Prolonged or repeated exposure may cause liver and kidney effects. Repeated or prolonged exposure may cause central nervous system damage. Prolonged skin contact may defat the skin and produce dermatitis.

CARCINOGENICITY: This product contains styrene classified by the International Agency for Research on Cancer (IARC) as 2A carcinogen.

This product contains styrene, which is listed in the NTP report on carcinogens.

This product contains chemical(s) categorized as ACGIH A3 - Confirmed animal carcinogen with unknown relevance to humans

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Contact

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Name according to EEC</u> | <u>Oral LD50</u> | <u>Dermal LD50</u> | <u>Vapor LC50</u> |
|----------------|------------------------------|------------------|--------------------|-------------------|
| 100-42-5 | Styrene | 5000 mg/kg Rat | 2000 mg/kg Rat | 11.8 mg/L Rat |
| 8032-32-4 | Ligroine | > 2000 mg/kg | > 3350 mg/kg | > 25.3 mg/l |

N.I. = No Information

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Discharge into the environment must be avoided. Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits.

SECTION 13 – DISPOSAL CONSIDERATIONS



DISPOSAL METHOD: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

SECTION 14 – TRANSPORT INFORMATION

SPECIAL TRANSPORT PRECAUTIONS: No Information

International transport regulations

| <u>Regulatory Information:</u> | <u>UN/NA Number</u> | <u>Proper Shipping Name</u> | <u>Classes / PG</u> | <u>Reportable Quantity (RQ)</u> |
|--------------------------------|---------------------|----------------------------------|---------------------|---------------------------------|
| CFR | UN1866 | RESIN SOLUTION | Class 3 PGIII | |
| IMO/MDG | UN1866 | RESIN SOLUTION, <u>flammable</u> | Class 3 PGIII | |
| IATA | UN1866 | RESIN SOLUTION, <u>flammable</u> | Class 3 PGIII | |

SECTION 15 - REGULATORY INFORMATION

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

Chemical Name

Styrene

CAS-No.

100-42-5

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name

Styrene

CAS-No.

100-42-5

TOXIC SUBSTANCES CONTROL ACT

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) regulated components exist in this product

CALIFORNIA PROPOSITION 65 CARCINOGENS



WARNING: Cancer - www.P65Warnings.ca.gov

Chemical Name

Styrene

Ethylbenzene

Benzene

CAS-No.

100-42-5

100-41-4

71-43-2

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS



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

Chemical Name

Methanol

Benzene

CAS-No.

67-56-1

71-43-2

International Regulations

**Chemical
Inventories**

Australia inventory (AICS)

Canada inventory (DSL)

All components are listed or exempted

All components are listed or exempted

| | |
|-----------------------------------|---------------------------------------|
| Canada inventory (NDSL) | Not listed |
| Japan Inventory (ENCSC) | Not listed |
| China Inventory (IECSC) | Not listed |
| Korea Inventory (KECI) | All components are listed or exempted |
| New Zealand (NZIoC) | All components are listed or exempted |
| Philippines (PICCS) | Not listed. |
| United States Inventory (TSCA 8b) | All components are listed or exempted |

SECTION 16 – OTHER INFORMATION

Revision Date

3/25/2024

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.

HMIS Ratings:

| | | | | | | | | | |
|---------|----|---------------|---|-------------|---|----------------------|------|-----------------|---|
| Health: | 2* | Flammability: | 3 | Reactivity: | 1 | Personal Protection: | N.I. | Chronic Rating: | * |
|---------|----|---------------|---|-------------|---|----------------------|------|-----------------|---|

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information