



Safety Data Sheet

FOR INDUSTRIAL USE ONLY

MARINE CLEAR (S)

Revision Date 12/13/2017

1. Identification

Product Name: MARINE CLEAR (S)
SDS Number: 961XD130
Product Use: Industrial
Manufacturer, Importer, Supplier: Polynt Composites USA, Inc.
 99 East Cottage Avenue
 Carpentersville IL 60110
 E-Mail: MSDS@polynt.com

Telephone

For Emergency Transportation Information
CHEMTREC US Domestic (800) 424-9300
CHEMTREC International (703) 527-3887

For additional health, safety or regulatory information, call (847) 836-3659

2. Hazard identification

EMERGENCY OVERVIEW: May cause sensitization by inhalation and skin contact. Risk of serious damage to the lungs (by aspiration).

GHS Classification

Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Flam. Liq. 3, 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 | H226 | Flammable liquid and vapour. |
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| Eye Irritation, category 2 | H319 | Causes serious eye irritation. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |

STOT, single exposure, category 3, NE H336 May cause drowsiness or dizziness.
 Carcinogenicity, category 2 H351 Suspected of causing cancer.
 STOT, repeated exposure, category 1 H372 Causes damage to organs through prolonged or repeated exposure.

GHS LABEL PRECAUTIONARY STATEMENTS

P201 Obtain special instructions before use.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash ... thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required.
 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+P340 IF INHALED: Remove person to fresh air and keep 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.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P321 Specific treatment (see ... on this label).
 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.
 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.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container to in accordance with local/regional/national/international regulations.

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.

3. Composition/Information on ingredients

| <u>Chemical Name</u> | <u>CAS-No.</u> | <u>Wt. %</u> | <u>GHS Symbols</u> | <u>GHS Statements</u> |
|------------------------|----------------|--------------|--------------------|--|
| STYRENE MONOMER | 100-42-5 | 38.04 | GHS02-GHS07-GHS08 | H226-302-304-315-319-332-335-336-351-372 |
| METHYL METHACRYLATE | 80-62-6 | 5.0 - 10 | GHS02-GHS07 | H225-315-317-332-335 |
| LIGHT AROMATIC NAPHTHA | 64742-95-6 | 0.1-1.0 | GHS07-GHS08 | H304-332 |

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid measures

FIRST AID - EYE CONTACT: If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

FIRST AID - INGESTION: Aspiration hazard if swallowed - can enter lungs and cause damage. If ingested, consult a physician. Do NOT induce vomiting.

FIRST AID - INHALATION: Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

FIRST AID - SKIN CONTACT: Wash with soap and water. Remove contaminated clothes and shoes. Get medical attention if

irritation develops.

5. Fire-fighting measures

Extinguishing Media:

Suitable Carbon Dioxide, Dry Chemical, Foam, Water Fog
Not suitable 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. Do not use a solid water stream as it may scatter and spread fire. Cool containers / tanks with water spray. In case of fire: Use carbon dioxide, dry chemical, foam, water fog to extinguish. Vapors may be ignited by heat, pilot lights, other flames and ignition sources. 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: No Information

6. Accidental release measures

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

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. Avoid breathing vapors or mists. Use non-sparking tools and equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Do not flush into surface water or sanitary sewer system. 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).

PRECAUTIONARY MEASURES: No Information

7. Handling and storage



HANDLING: Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothing. Ground/bond container and equipment. 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.

STORAGE: 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). Store in cool well ventilated space away from incompatible materials. Keep container closed when not in use. Store and dispose according to national, state and local regulations.

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.

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 MONOMER | 20 ppm | 40 ppm | 100 ppm | 200 ppm |
| METHYL METHACRYLATE | 50 ppm | 100 ppm | 100 ppm | N.E. |
| LIGHT AROMATIC NAPHTHA | 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: 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. 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.

9. Physical and chemical properties

| | | | |
|------------------------------|-------------------|---|---------------|
| Color: | Translucent | Physical State: | Liquid |
| Odor: | Moderate aromatic | Odor Threshold: | Not Available |
| Density, g/cm ³ : | 1.049 | pH: | Not Available |
| Freeze Point, °C: | Not Available | Viscosity: | Not Available |
| Solubility in Water: | Insoluble | Partition Coefficient, n-octanol/ water: | Not Available |
| Decomposition Temp., °C: | Not Available | Flash Point, °C / F° | 26 / 79 |
| Boiling Range, °C: | 100 | Explosive Limits, vol%: | Not Available |
| Vapor Pressure: | Not Available | Auto-ignition Temp., °C: | Not Available |

(See "Other information" Section for abbreviation legend)

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.

CONDITIONS TO AVOID: 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. Burning may produce obnoxious and toxic fumes. Hazardous polymerization may occur. Keep product away from heat, sparks, pilot lights, static electricity, and open flame.

INCOMPATIBILITY: Free radical initiators. Copper. Strong acids. Metal salts. Strong oxidizing and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal use.

11. Toxicological information



Practical Experiences

EFFECT OF OVEREXPOSURE - EYE CONTACT: Exposure may cause mild irritation. Symptoms may include stinging, tearing, and redness.

EFFECT OF OVEREXPOSURE - INGESTION: May cause severe gastrointestinal disturbance with headache, nausea, vomiting and

diarrhea.

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). 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. 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. Ingestion of large doses may cause headaches, dizziness, nausea, vomiting, and drowsiness. Irritating to skin.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Prolonged skin contact may defat the skin and produce dermatitis.

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

CARCINOGENICITY: * This product contains the following chemicals classified by the International Agency for Research on Cancer (IARC) as 1, 2A, or 2B carcinogens:

*This product may contain a chemical which is listed in the NTP report on carcinogens.

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 MONOMER | 1000 mg/kg Rat | N.I. | 11.7 mg/L Rat |
| 80-62-6 | METHYL METHACRYLATE | 8420 - 10000 mg/kg Rat | 5000 - 7500 mg/kg Rabbit | 78000 mg/l Rat |
| 64742-95-6 | LIGHT AROMATIC NAPHTHA | 8400 mg/kg Rat | >2000 mg/kg Rabbit | N.I. |

N.I. = No Information

12. Ecological information

ECOLOGICAL INFORMATION: 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. Discharge into the environment must be avoided.

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.

14. Transport information

SPECIAL TRANSPORT PRECAUTIONS: No Information

International transport regulations

| Regulatory Information: | UN/NA Number | Proper Shipping Name | Classes/ *PG | Reportable Quantity (RQ) |
|--------------------------------|---------------------|-----------------------------|---------------------|---------------------------------|
| CFR | UN1866 | RESIN SOLUTION | Class 3 PGIII | |
| IMO/IMDG | UN1866 | RESIN SOLUTION | Class 3 PGIII | |
| IATA | UN1866 | RESIN SOLUTION | Class 3 PGIII | |

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:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| STYRENE MONOMER | 100-42-5 |
| METHYL METHACRYLATE | 80-62-6 |

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:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| STYRENE MONOMER | 100-42-5 |
| METHYL METHACRYLATE | 80-62-6 |

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 components exist in this product.

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following hazardous materials are listed.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|-------------------------------------|----------------|
| STYRENE MONOMER | 100-42-5 |
| METHYL METHACRYLATE | 80-62-6 |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER | 34590-94-8 |
| ETHYLBENZENE | 100-41-4 |
| MINERAL SPIRITS(PETROLEUM NAPHTHA) | 64742-88-7 |
| ISOPROPYL ALCOHOL | 67-63-0 |
| 4-METHOXYPHENOL | 150-76-5 |
| MINERAL SPIRITS | 8032-32-4 |
| METHYL ALCOHOL | 67-56-1 |

PENNSYLVANIA RIGHT-TO-KNOW

The following hazardous ingredients are present:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|-------------------------------------|----------------|
| STYRENE MONOMER | 100-42-5 |
| METHYL METHACRYLATE | 80-62-6 |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER | 34590-94-8 |
| ETHYLBENZENE | 100-41-4 |
| DIETHYLENE GLYCOL | 111-46-6 |
| ISOPROPYL ALCOHOL | 67-63-0 |
| 4-METHOXYPHENOL | 150-76-5 |
| T-BUTYL CATECHOL | 98-29-3 |
| MINERAL SPIRITS | 8032-32-4 |
| METHYL ALCOHOL | 67-56-1 |

U.S. State Regulations:

MASSACHUSETTS RIGHT-TO-KNOW:

The following hazardous materials are listed.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| STYRENE MONOMER | 100-42-5 |

| | |
|-------------------------------------|------------|
| METHYL METHACRYLATE | 80-62-6 |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER | 34590-94-8 |
| ETHYLBENZENE | 100-41-4 |
| ISOPROPYL ALCOHOL | 67-63-0 |
| 4-METHOXYPHENOL | 150-76-5 |
| T-BUTYL CATECHOL | 98-29-3 |
| METHYL ALCOHOL | 67-56-1 |

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: This product contains a chemical known to the state of California to cause cancer.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| STYRENE MONOMER | 100-42-5 |
| ETHYLBENZENE | 100-41-4 |

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
| METHYL ALCOHOL | 67-56-1 |

International Regulations

| | | |
|-----------------------------|--|---------------------------------------|
| Chemical Inventories | Australia inventory (AICS) | Not Determined |
| | Canada inventory (DSL) | Not Determined |
| | Japan Inventory (ENCSC) | Not Determined |
| | China Inventory (IECSC) | Not Determined |
| | Korea Inventory (KECI) | Not Determined |
| | New Zealand (NZIoC) | Not Determined |
| | Philippines (PICCS) | Not Determined |
| | United States Inventory (TSCA 8b) | All components are listed or exempted |

16. Other information

| | | | |
|-------------------------------|-------------------------|-------------------------|----------|
| Revision Date: | 12/13/2017 | Supersedes Date: | 6/7/2017 |
| Reason for revision: | Updated SDS Information | | |
| Datasheet produced by: | Regulatory Department | | |

HMIS Ratings:

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

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| 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. |
| H336 | May cause drowsiness or dizziness. |

H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02



GHS07



GHS08



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

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