



Safety Data Sheet

FOR INDUSTRIAL USE ONLY

733-8495 UPR Series

Revision Date 8/15/2018

1. Identification

Product Name: 733-8495 UPR Series
SDS Number: 300000013242
Product Type: Unsaturated polyester
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: FLAMMABLE LIQUID AND VAPOR. AVOID EYE CONTACT WITH VAPOR, SPRAY, OR MIST. AVOID SKIN CONTACT. AVOID BREATHING OF 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.

GHS Classification

Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Flam. Liq. 3, Muta. 1B, Skin Irrit. 2, STOT RE 1, STOT SE 3 NE, STOT SE 3 RTI

Symbol(s) of Product



Signal Word

Danger

Possible Hazards

1% of the mixture consists of ingredient(s) of unknown acute toxicity

GHS HAZARD STATEMENTS

Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Carcinogenicity, category 2	H351	Suspected of causing cancer.

Eye Irritation, category 2	H319	Causes serious eye irritation.
Flammable Liquid, category 3	H226	Flammable liquid and vapour.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.
STOT, repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Skin Irritation, category 2	H315	Causes skin irritation.

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.
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.

3. Composition/Information on ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>
Styrene	100-42-5	31.60
alpha-methylstyrene	98-83-9	1.0-5.0
Vinyl Toluene	25013-15-4	0.1-1.0
Dipropylene Glycol Monomethyl Ether	34590-94-8	0.1-1.0

4. First-aid measures

FIRST AID - EYE CONTACT: Hold eyelids apart and immediately flush with plenty of water for 15 minutes. Seek medical advice. Remove contact lenses.

FIRST AID - INGESTION: 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.

FIRST AID - INHALATION: 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.

5. Fire-fighting measures

Extinguishing Media:

Suitable Dry Chemical, CO₂, Water Fog/Mist, Foam
Not suitable Water Jet

SPECIAL FIREFIGHTING PROCEDURES: Wear full protective gear & SCBA.

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.

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).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment. Prevent further leakage or spillage if safe to do so. 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).

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).

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 container.

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. Store and dispose according to national, state and local regulations.

HYGIENIC PRACTICES: 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.

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	20 ppm	40 ppm	100 ppm	200 ppm
alpha-methylstyrene	10 ppm	N.E.	N.E.	100 ppm
Vinyl Toluene	50 ppm	100 ppm	100 ppm	N.E.
Dipropylene Glycol Monomethyl Ether	100 ppm	150 ppm	100 ppm	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: 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.



EYE PROTECTION: Safety glasses with side-shields. Avoid contact with eyes.



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: General industrial hygiene practice. Wash hands before eating, drinking, or smoking.

9. Physical and chemical properties

Color:	Brown.	Physical State:	Liquid
Odor:	Styrene	Odor Threshold:	Not Available
Density, g/cm3:	1.104	pH:	Not Available
Freeze Point, °C:	Not Available	Viscosity:	1500 cP @ 25°C
Solubility in Water:	Negligible	Partition Coefficient, n-octanol/water:	Not Available
Decomposition Temp., °C:	Not Available	Flash Point, °C / F°	32 / 90
Boiling Range, °C:	65	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: This material is stable under normal storage and handling conditions.

CONDITIONS TO AVOID: High temperatures, sparks, open flame, and all other sources of ignition. Avoid heat, sparks, flames and other ignition sources.

INCOMPATIBILITY: Keep away from strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous reaction known under conditions of normal use.

11. Toxicological information**Practical Experiences**

EFFECT OF OVEREXPOSURE - EYE CONTACT: Moderate irritation including redness, swelling, pain, tearing and hazy vision. May cause irritation, discomfort, reddening and tearing.

EFFECT OF OVEREXPOSURE - INGESTION: May cause irritation of the respiratory tract and CNS effects such as dizziness, headaches, nausea and narcosis.

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of high concentrations may cause headache, nausea, and dizziness.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Prolonged contact may cause irritation and/or redness.

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: No Information

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.

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	2770 mg/L Rat 4h
98-83-9	alpha-methylstyrene	4900 mg/kg Rat	N.I.	N.I.
25013-15-4	Vinyl Toluene	2255 mg/kg Rat	4490 mg/kg Rabbit	>3535 mg/l Rat (4 hours)
34590-94-8	Dipropylene Glycol Monomethyl Ether	5350 mg/kg Rat	9500 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:

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Acute Toxicity (any route of exposure), Skin Corrosion or Irritation, 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

<u>Chemical Name</u>	<u>CAS-No.</u>
Styrene	100-42-5
alpha-methylstyrene	98-83-9
Benzenamine, N,N,4-trimethyl-	99-97-8
Ethylbenzene	100-41-4
Cumene	98-82-8

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

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

<u>Chemical Name</u>	<u>CAS-No.</u>
Methanol	67-56-1
Toluene	108-88-3

International Regulations

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

16. Other information

Revision Date:	8/15/2018	Supersedes Date:	5/1/2017
Reason for revision:	Updated SDS Information		
Datasheet produced by:	Regulatory Department		

HMIS Ratings:

Health:	2	Flammability:	3	Reactivity:	1	Personal Protection:	N.I.	Chronic Rating:	N.I.
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Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

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