



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations



Printing date: 01/31/2017

Revision: 01/31/2017

1 Identification

- **Product identifier**
- **Trade name:** 7310 Vinyl Ester Prepreg
- **Other product identifiers:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Resin
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Sunrez Corporation
392 Coogan Way
El Cajon, CA, 92020
619-442-3353
- **Emergency telephone number:**
ChemTel Inc.
(800)255-3924 (North America)
+1 (813)248-0585 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**

GHS07 GHS08
- **Signal word:** Warning
- **Hazard statements:**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
- **Precautionary statements:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection.

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- P272 Contaminated work clothing must not be allowed out of the workplace.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards** There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Components:**

868-77-9	2-hydroxyethyl methacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	15-50%
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide ⚠ Repr. 2, H361 ⚠ Skin Sens. 1B, H317	≤10%

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

· **After eye contact:**

Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

· **Most important symptoms and effects, both acute and delayed:**

Headache
Coughing
Dizziness
Allergic reactions
Irritant to skin and mucous membranes.

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Causes eye irritation.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.

· Indication of any immediate medical attention and special treatment needed:

Contains 2-hydroxyethyl methacrylate, diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide. May produce an allergic reaction.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Fire-fighting measures

· Extinguishing media**· Suitable extinguishing agents:**

Water fog / haze

Foam

Fire-extinguishing powder

Carbon dioxide

· For safety reasons unsuitable extinguishing agents:

Water spray

Water stream.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters**· Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· Environmental precautions Avoid release to the environment.**· Methods and material for containment and cleaning up**

Absorb liquid components with liquid-binding material.

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Use only in well ventilated areas.
 - Prevent formation of dust.
 - Avoid contact with the eyes and skin.
 - Avoid breathing dust.
 - Keep out of reach of children.
- **Information about protection against explosions and fires:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
 - Use only receptacles specifically permitted for this substance/product.
 - Store in a cool location.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from oxidizers, strong acids, strong bases.
- **Further information about storage conditions:**
 - Protect from sunlight.
 - Keep containers tightly sealed.
- **Specific end use(s)** No relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - The usual precautionary measures for handling chemicals should be followed.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Do not inhale dust / smoke / mist.
 - Avoid contact with the eyes and skin.
 - Pregnant women should strictly avoid inhalation or skin contact.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
 - Not required under normal conditions of use.
 - Use respiratory protection when grinding or cutting material.

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Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves** Nitrile rubber, NBR**Eye protection:**

Safety glasses

· **Body protection:** Protective work clothing· **Limitation and supervision of exposure into the environment**

No relevant information available.

9 Physical and chemical properties

Information on basic physical and chemical properties**Appearance:**

- | | |
|--------------------------|-----------------|
| · Form: | Liquid |
| · Color: | Light yellow |
| · Odor: | Sweet |
| · Odor threshold: | Not determined. |

- | | |
|---------------------------------------|-------------------|
| · pH-value: | Not applicable. |
| · Melting point/Melting range: | Not determined. |
| · Boiling point/Boiling range: | >190 °C (>374 °F) |

· Flash point:	>94 °C (>201 °F)
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· Flammability (solid, gaseous):	Not determined.
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· Auto-ignition temperature:	Not determined.
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· Decomposition temperature:	Not determined.
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· Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits

- | | |
|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

· Vapor pressure:	Not applicable.
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Density:

- | | |
|----------------------------|---------------------------------------|
| · Relative density: | 1.13 g/cm ³ (9.43 lbs/gal) |
| · Vapor density: | Not applicable. |
| · Evaporation rate: | Not applicable. |

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· Solubility in / Miscibility with**Water:** Negligible**· Partition coefficient (n-octanol/water):** Not determined.**· Viscosity****Dynamic:** Not applicable.**Kinematic:** Not applicable.**· Other information** No relevant information available.**10 Stability and reactivity****· Reactivity:** No relevant information available.**· Chemical stability:****· Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions Reacts with strong oxidizing agents.**· Conditions to avoid** Light, excess heat, dust generation, incompatible materials.**· Incompatible materials** Oxidizers**· Hazardous decomposition products** Carbon monoxide and carbon dioxide**11 Toxicological information****· Information on toxicological effects****· Acute toxicity:****· LD/LC50 values that are relevant for classification:****868-77-9 2-hydroxyethyl methacrylate**

Oral | LD50 | 5050 mg/kg (rat)

· Primary irritant effect:**· On the skin:** Irritant to skin and mucous membranes.**· On the eye:** Irritating effect.**· Sensitization:**

Contains 2-hydroxyethyl methacrylate, diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide. May produce an allergic reaction.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Eye contact.

Skin contact.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Repr. 2
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity

· Aquatic toxicity

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

LC50 | 6.53 mg/l (fish)

EC50 | 3.53 mg/l (daphnia)

- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Avoid release to the environment.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

· Uncleaned packagings

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA

Not regulated.

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<ul style="list-style-type: none"> · UN proper shipping name · DOT, ADR, IMDG, IATA 	Not regulated.
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<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADR, IMDG, IATA · Class 	Not regulated.
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<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	Not regulated.
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<ul style="list-style-type: none"> · Environmental hazards · Marine pollutant: 	No
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<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
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<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

<ul style="list-style-type: none"> · Section 302 (extremely hazardous substances):
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None of the ingredients are listed.

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances):
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None of the ingredients are listed.

<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings):
--

None of the ingredients are listed.

<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act)
--

All ingredients are listed.

<ul style="list-style-type: none"> · Proposition 65 (California)
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<ul style="list-style-type: none"> · Chemicals known to cause cancer:

None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
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None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
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None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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· Carcinogenic categories**· EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 01/31/2017 / -**· Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

LDLo: Lowest Lethal Dose Observed

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Repr. 2: Reproductive toxicity – Category 2

· SourcesWebsite, European Chemicals Agency (echa.europa.eu)Website, US EPA Substance Registry Services (ofmpub.epa.gov/sorinternet/registry/substreg/home/overview/home.do)Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaassen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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