

**1. Product and company Identification**

**Product Name** : APR-201, APR-202 and APR-203  
**Synonyms** : Oxazoline functional crosslinking agent  
**Product Use** : Waterborne crosslinker, Waterborne adhesive promoting agents  
**Supplier** : GHEN MATERIALS LLC  
**Address** : 234 10<sup>th</sup> Street Suite 516 , Jersey City, NJ 07302 USA  
**General Information** : TEL 201-604-6231 FAX 201-604-6266  
**Emergency Contact Number** : TEL 1-800-255-3924(CHEMTEL 24 hours for USA, Canada)

**2. Hazardous identification**

**GHS Classification:**

Health	Environmental	Physical
Not classified	Not classified	Not classified

**GHS Label:**

<b>Symbols:</b> Not applicable	
<b>Hazard Statements</b> Not applicable	<b>Precautionary Statements</b> Not applicable

**3. Composition / Information on Ingredients**

	Chemical name	Wt %	CAS No.
A	Oxazoline-functional copolymer	38-39	137496-92-5
B	Emulsifier	1-2	Trade Secret
C	Water	60	7732-18-5

**4. First Aid Measures**

**Eye contact**

Flush eyes with plenty of clean water for at least 15 minutes. Get medical attention. Keep enough opening the eyelid while flushing. Wash every corner of eye.

**Skin**

Wash with soap and water. Get medical attention if the blisters and the inflammation are cause in the skin.

**Inhalation**

Remove the victim to fresh air immediately. Keep the victim warm and rest. Get immediate medical attention.

**Ingestion**

Do not induce vomiting. Give the victim one or two glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

**5. Fire Fighting Measures**

**Suitable extinguishing media:**

Use water spray, foam, carbon dioxide, and powder if this product dries up.

NOT suitable extinguishing media: Not applicable

**Specific hazards with regard to fire-fighting measure:**

This product does not burn by itself because of containing a lot of water.



If this product dries up and in case of fire, this product may liberate toxic gasses (NOx etc)

**Specific methods of fire fighting:**

Fight fire from windward. Shut off fuel to fire and use extinguishing agents.

**Special equipment for the protection of firefighters:**

As in any fire, wear self-contained breathing apparatus with full-face piece operated in positive pressure mode and full protective gear.

**6: Accidental Release Measures****Personal precautions:**

Evacuate personnel from the lee. Evacuate non-essential personnel. Shut off all sources of ignition; No flares, smoking or flames in the area. Wear proper protective equipment.

**Environmental precautions:**

Do not flush to sewer or waterways. Dike with soil. Cover with a sheet to prevent expanding odor.

**Methods for cleaning up:**

Absorb spill with inert materials (e.g. dry sand or soil), then place in a waste disposal container. Wash away with plenty of water, and process the drainage appropriately (incineration)

**7. Handling and Storage****Handling**

Appropriate technical measure:

Avoid contact with eyes, skin and clothing.

Practice good personal hygiene after using this material. Especially before eating, drinking, smoking or using toilet. Use with local exhaust ventilation.

Precautions for safe handling:

Don't leak, overflow, and scatter. Minimize vapor generation and accumulation. Shut off all sources of ignition; No flares, smoking, or flames in the area. Avoid falling, dropping, shocking and dragging a container.

**Storage**

Suitable storage conditions:

Do not store in direct sunlight

Keep away from heat and flam. Avoid conditions to freeze. Keep at temperature between -5°C(23°F) and 40°C(104°F)

Keep container tightly closed when in not use.

**8. Exposure Controls / Personal Protection****Engineering controls**

No special ventilation requirement in s in normal industrial use. Facilities storing or utilizing this substance should be equipped with an eyewash facility and safety shower.

**Personal protective equipment (PPE)**

Eyes: Wear protective eyeglasses or chemical safety goggles

Skin: Wear appropriate rubber gloves to prevent skin exposure

Clothing: Wear appropriate protective clothing to prevent skin exposure

Respirators: chemical cartridge respirator with organic vapors cartridge.

**9. Physical and Chemical Properties**

Odor/Appearance	: Milky white liquid, characteristic slight odor
Flashpoint	: not applicable
Autoignition Temperature	: not occur
Boiling Point	: 100°C (212°F) (water)
Melting Point	: -5 °C
Vapor Pressure	: not determined



Vapor Density (Air=1)	: not determined
Specific Gravity	: 1.05 (g/cm <sup>3</sup> )
pH Value	: 8 ±1
Solubility in water	: None( This product is water dispersion)
Flammability	: not flammable under normal conditions
Evaporation Rate (Water=1)	: not determined

**10. Stability and Reactivity**

Stability	: This substance is stable under the normal condition.
Possible hazardous reaction	: This substance is stable under the normal condition.
Conditions to avoid	: This substance is stable under the normal condition.
Materials to avoid	: Not applicable

**Hazardous Reactions/Decomposition Products:** When burned, it may exit hazardous gas of NO<sub>x</sub> etc.

**11. Toxicological Information****Acute Toxicity Values**

Oral LD <sub>50</sub> (Rat) = 2000 mg/kg (measured by the similar product)
Oral LD50 > 2,000mg/kg (emulsifier)
Skin LD50 > 2,000mg/kg (emulsifier)
Inhalation LC50 > 5,000mg/kg (emulsifier)

**Local effects**

Skin Corrosion/irritation	: This substance is not irritating and not corrosive to rabbit skin
Serious eye damage/ eye irritation	: Not available
Sensitization	: Not available
Germ cell mutagenicity	: This substance was negative in the Ames Test
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
Chronic toxicity or long-term toxicity	: Not available
Aspiration hazard	: Not available

**12. Ecological Information****Ecotoxicity**

Fish : kill fish LC 50 96h > 1,000mg/L (measured by similar product)	
kill fish LC 50 96h > 1,000mg/L (emulsifier)	
Crustacea	: Not available
Persistence / degradability	: Not available
Bioaccumulation	: Not available
Mobility	: Not available
Other adverse effects	: COD 930mg/L(emulsifier, 0.1% water solution )

**13. Disposal Considerations**

Dispose of according to State, Local and EPA regulations.

**Waste from residues:**

Burn in a chemical incinerator equipped with an afterburner and scrubber. Consult an expert on disposal of recovered materials.

**Any contaminated packaging:**

Do not put other material into the used container and do not use it for other purpose. Treat the contents burned on the above. Wash the inside of the container before dispose.

**14. Transport Information****U.S. Department of Transportation (DOT)**

UN class : Not applicable

IMDG Code : Not applicable

US DOT : Not regulated

Additional regulation : This product is subject to U.S. Export Administration Regulation and is classified as EAR 99 thereunder.

Any transportation practice must be in compliance with laws and regulation in local, Federal government.

**15. Regulatory Information****U.S. Federal Regulations****Toxic Substances Control Act (TSCA):** All components of this product are included on the TSCA inventory.**SARA 313 Regulated Chemical(s)**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**International Regulations**

Canada (CEPA) : Not listed (oxazoline functional polymer), Listed (emulsifier)

Japan (ENCS) : 6-1956 (oxazoline functional polymer), Listed (emulsifier)

EU Status:

REACH registration : 01-0000016736-63 (oxazoline functional polymer), Not listed (emulsifier)

**16. Other Information**

## Harzard Rating

**Health** : 1**Flammability** : 1**Reactivity** : 0

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