



**Product #: LIQ2010  
LIQ2080**

## **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: HazCom 2012

### **AEGIS® POLYMER II**

**Issuing Date** 30-Sep-2022

**Revision date** 30-Sep-2022

**Revision Number** 3

#### **1. Identification**

**Product identifier**

**Product Name** AEGIS® POLYMER II

**Other means of identification** LIQ2010 / LIQ2080

Recommended use of the chemical and restrictions on use

Recommended use Adhesives.

Restrictions on use No information available.

**Details of the supplier of the safety data sheet**

**Manufacturer**

AEGIS Tools International  
908 West Main St.  
Laurel, MT 59044  
Tel: 800-548-7341  
Fax: 406-628-8354

E-mail address [rachaelm@wpg.com](mailto:rachaelm@wpg.com)

**Emergency telephone number 24 Hour Emergency**

Phone Number Chemtrec 1-800-424-9300

#### **2. Hazard(s) identification**

|                               |                              |                            |
|-------------------------------|------------------------------|----------------------------|
| Emergency Overview            |                              |                            |
| <b>Appearance</b> transparent | <b>Physical state</b> Liquid | <b>Odor</b> Characteristic |

**Classification**

|  |                           |
|--|---------------------------|
| Skin corrosion/irritation                        | Category 1 Sub-category A |
| Serious eye damage/eye irritation                | Category 1                |
| Skin sensitization                               | Category 1                |
| Specific target organ toxicity (single exposure) | Category 3                |

**Hazards not otherwise classified (HNOC)**

Not applicable.

**Label elements**

**Signal word** Danger

**Hazard statements**

Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 May cause respiratory irritation.

**Precautionary Statements - Prevention**

Do not breathe dusts or mists.  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Use only outdoors or in a well-ventilated area.

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF ON SKIN: Wash with plenty of soap and water.  
 Take off contaminated clothing and wash before reuse.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Precautionary Statements - Storage**

Store locked up.  
 Store in a well-ventilated place. Keep container tightly closed.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other information**

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name              | CAS No      | Trade secret | Weight-% |
|----------------------------|-------------|--------------|----------|
| Acrylate Ester             | Proprietary | *            | 25-39    |
| Methacrylate Ester Monomer | Proprietary | *            | 10-24    |
| Acrylic Acid               | 79-10-7     | *            | 5-9      |
| Silane Coupling Agent      | Proprietary | *            | <1       |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

**Description of first aid measures**

**General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Ingestion**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

**Inhalation**

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.

**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

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

Burning sensation. Itching. Rashes. Hives.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. Treat symptomatically.

**5. Fire-fighting measures****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical or CO<sub>2</sub>.

**Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

**Hazardous combustion products**

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Hydrocarbons. Nitrogen oxides (NO<sub>x</sub>).

**Explosion data**

Sensitivity to mechanical impact: None.  
Sensitivity to static discharge: None.

**Special protective equipment and precautions for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### Other information

Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

#### Methods for containment

Prevent further leakage or spillage if safe to do so.

#### Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

#### Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### Reference to other sections

See section 8 for more information. See section 13 for more information.

## 7. Handling and storage, including how the chemical may be safely used

### Precautions for safe handling

#### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Protect from light.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Protect from light.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

| Chemical name | ACGIH TLV        | OSHA PEL   | NIOSH                                  |
|---------------|------------------|--|--|
| Acrylic Acid  | TWA: 2 ppm<br>S* | (vacated) TWA: 10 ppm<br>(vacated) TWA: 30 mg/m <sup>3</sup><br>(vacated) S* | TWA: 2 ppm<br>TWA: 6 mg/m <sup>3</sup> |

### Appropriate engineering controls

#### Engineering controls

Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

#### General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**Hand protection**

Wear suitable gloves. Nitrile rubber, Butyl rubber.

**Eye/face protection**

Tight sealing safety goggles. Face protection shield.

**Skin and body protection**

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**Respiratory protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls**

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state:</b> | Liquid                   |
| <b>Appearance:</b>     | Transparent              |
| <b>Color:</b>          | Colorless                |
| <b>Odor:</b>           | Characteristic           |
| <b>Odor threshold:</b> | No information available |

| <u>Property</u>                                | <u>Values</u>     | <u>Remarks · Method</u>          |
|--|-------------------|----------------------------------|
| <b>pH:</b>                                     | No data available | No information available         |
| <b>pH (as aqueous solution):</b>               | No data available | Not applicable                   |
| <b>Melting point / freezing point:</b>         | No data available | No information available         |
| <b>Boiling point / boiling range:</b>          | No data available | No information available         |
| <b>Flash point:</b>                            | 101 °C / 214 °F   | Pensky-Martens Closed Cup (PMCC) |
| <b>Evaporation rate:</b>                       | No data available | No information available         |
| <b>Flammability (solid, gas):</b>              | No data available | Not applicable                   |
| <b>Flammability Limit in Air</b>               |                   |                                  |
| <b>Upper flammability or explosive limits:</b> | No data available | No information available         |
| <b>Lower flammability or explosive limits:</b> | No data available | No information available         |
| <b>Vapor pressure:</b>                         | No data available | No information available         |
| <b>Relative vapor density:</b>                 | No data available | No information available         |
| <b>Relative density:</b>                       | No data available | No information available         |
| <b>Water solubility:</b>                       | Partially soluble | No information available         |
| <b>Solubility(ies):</b>                        | No data available | No information available         |
| <b>Partition coefficient:</b>                  | No data available | No information available         |
| <b>Autoignition temperature:</b>               | 438 °C / 820.4 °F | No information available         |
| <b>Decomposition temperature:</b>              | No data available | No information available         |
| <b>Kinematic viscosity:</b>                    | No data available | No information available         |
| <b>Dynamic viscosity:</b>                      | 70 cP             |                                  |

**Other information**

|                              |                          |
|------------------------------|--------------------------|
| <b>Explosive properties:</b> | No information available |
| <b>Oxidizing properties:</b> | No information available |
| <b>Softening point:</b>      | No information available |
| <b>Molecular weight:</b>     | No information available |
| <b>VOC Content (%):</b>      | No information available |
| <b>Liquid Density:</b>       | No information available |
| <b>Bulk density:</b>         | No information available |

## 10. Stability and reactivity

**Reactivity**

No information available.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

None under normal processing.

**Conditions to avoid**

Exposure to air or moisture over prolonged periods.

**Incompatible materials**

Acids. Bases. Oxidizing agent.

**Hazardous decomposition products**

None under normal use conditions.

## 11. Toxicological information

**Information on likely routes of exposure****Product Information****Inhalation:**

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

**Eye contact:**

Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

**Skin contact:**

Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Ingestion:**

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

**Acute toxicity****The following values are calculated based on chapter 3.1 of the GHS document:**

|                                |                |
|--------------------------------|----------------|
| ATEmix (oral):                 | 3,903.00 mg/kg |
| ATEmix (dermal):               | 5,147.60 mg/kg |
| ATEmix (inhalation-dust/mist): | 43.00 mg/L     |

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

**Component Information:**

| Chemical name              | Oral LD50            | Dermal LD50             | Inhalation LC50                                   |
|----------------------------|----------------------|-------------------------|---|
| Acrylate Ester             | = 4890 mg/kg ( Rat ) | > 3000 mg/kg ( Rabbit ) | -   |
| Methacrylate Ester Monomer | = 5050 mg/kg ( Rat ) | > 3000 mg/kg ( Rabbit ) | -   |
| Acrylic Acid               | = 193 mg/kg ( Rat )  | > 2000 mg/kg ( Rabbit ) | = 11.1 mg/L ( Rat ) 1 h<br>= 3.6 mg/L ( Rat ) 4 h |
| Silane Coupling Agent      | = 23.5 g/kg ( Rat )  | > 2000 mg/kg ( Rat )    | > 2.28 mg/L ( Rat ) 6 h                           |

**Symptoms related to the physical, chemical and toxicological characteristics**

Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- Skin corrosion/irritation:** Classification based on data available for ingredients. Causes burns.
- Serious eye damage/eye irritation:** Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.
- Respiratory or skin sensitization:** May cause sensitization by skin contact.
- Germ cell mutagenicity:** Not classified. Based on available data, the classification criteria are not met.
- Carcinogenicity:** Based on available data, the classification criteria are not met.
- The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC    | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Acrylic Acid  | -     | Group 3 |     | -    |

**Legend:****IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

- Reproductive toxicity:** Not classified. Based on available data, the classification criteria are not met.
- STOT - single exposure:** May cause respiratory irritation.
- STOT - repeated exposure:** Not classified. Based on available data, the classification criteria are not met.
- Target organ effects:** Respiratory system. Eyes. Skin.
- Aspiration hazard:** Not classified. Based on available data, the classification criteria are not met.

**12. Ecological information****Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Unknown aquatic toxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Chemical name              | Algae/aquatic plants   | Fish  | Toxicity to microorganisms | Crustacea   |
|----------------------------|--|---|----------------------------|---|
| Acrylate Ester             | ErC 50 = 2.7 mg/L 96h<br>(Pseudokirchneriella subcapitata)   | LC50: =0.704mg/L<br>(96h, Danio rerio)  | -                          | EC 50 = 1.1 mg/L 48h<br>(Daphnia magna)   |
| Methacrylate Ester Monomer | -  | LC50: 213 - 242mg/L<br>(96h, Pimephales promelas)<br>LC50: =227mg/L<br>(96h, Pimephales promelas)   | -                          | EC50 > 380 mg/l 48<br>h (Daphnia magna)   |
| Acrylic Acid               | EC50: =0.04mg/L (72h,<br>Desmodesmus subspicatus)<br>EC50: =0.17mg/L (96h,<br>Pseudokirchneriella subcapitata) | LC50: =222mg/L<br>(96h, Brachydanio rerio)<br>NOEC: >= 10.1mg/L (45d,<br>Oryzias latipes, OECD 210) | -                          | EC50: =95mg/L (48h,<br>Daphnia magna)<br>NOEC: =3.8mg/L<br>(21d, Daphnia magna) |
| Silane Coupling Agent      | EC50 > 536,00 mg/l<br>72 h (Scenedesmus<br>subspicatus)  | LC50: >100mg/L<br>(96h Danio rerio)   | -                          | EC50 > 876,00 mg/l<br>48 h (Daphnia magna)                                      |

**Persistence and degradability**

No information available.

**Bioaccumulation**

There is no data for this product.

**Component Information**

| Chemical name              | Partition coefficient |
|----------------------------|-----------------------|
| Acrylate Ester             | 4.52                  |
| Methacrylate Ester Monomer | 0.47                  |
| Acrylic Acid               | 0.46                  |
| Silane Coupling Agent      | 2.1                   |

**Other adverse effects**

No information available.

**13. Disposal considerations****Waste treatment methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number: U008

**14. Transport information****IMDG**

|                             |   |
|-----------------------------|---|
| UN number or ID number:     | UN 1760   |
| UN proper shipping name:    | CORROSIVE LIQUID, N.O.S. (Acrylic acid, stabilized) |
| Transport hazard class(es): | 8   |
| Packing group:              | II  |
| EmS-No:                     | F-A, S-B  |
| Marine pollutant:           | P   |

**IATA**

|                             |   |
|-----------------------------|---|
| UN number or ID number:     | UN 1760   |
| UN proper shipping name:    | CORROSIVE LIQUID, N.O.S. (Acrylic acid, stabilized) |
| Transport hazard class(es): | 8   |
| Packing group:              | II  |

**DOT**

|                            |   |
|----------------------------|---|
| UN number:                 | UN 1760   |
| Proper shipping name:      | CORROSIVE LIQUID, N.O.S. (Acrylic acid, stabilized) |
| Transport hazard class(es) | 8   |
| Packing group              | II  |

**15. Regulatory information****International Inventories****TSCA** Complies

\*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

|               |                         |
|---------------|-------------------------|
| AIIC          | Not Listed              |
| DSL/NDSL      | Complies                |
| EINECS/ELINCS | Complies                |
| ENCS          | Complies                |
| IECSC         | Simplified Notification |
| KECL          | Complies                |
| PICCS         | Not Listed              |
| NZIoC         | Not Listed              |
| TCSI          | Not Listed              |

**Legend:**

|               |  |
|---------------|--|
| TSCA          | - United States Toxic Substances Control Act Section 8(b) Inventory                                |
| AIICS         | - Australian Industrial Chemicals Introduction Scheme  |
| DSL/NDSL      | - Canadian Domestic Substances List/Non-Domestic Substances List                                   |
| EINECS/ELINCS | - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances |



|       |  |
|-------|--|
| ENCS  | - Japan Existing and New Chemical Substances                 |
| IECSC | - China Inventory of Existing Chemical Substances            |
| KECL  | - Korean Existing and Evaluated Chemical Substances          |
| PICCS | - Philippines Inventory of Chemicals and Chemical Substances |
| NZIoC | - New Zealand Inventory of Chemicals                         |
| TCSI  | - Taiwan Chemical Substance Inventory                        |

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values % |
|---------------|-------------------------------|
| Acrylic Acid  | 1.0                           |

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ)                   |
|---------------|--------------------------|------------------------------------|--|
| Acrylic Acid  | 5000 lb                  | -                                  | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Acrylic Acid  | X          | X             | X            |

**U.S. EPA Label Information****EPA Pesticide Registration Number**

Not applicable

**16. Other information**

|      |                  |                |                    |                       |
|------|------------------|----------------|--------------------|-----------------------|
| NFPA | Health hazards 3 | Flammability 1 | Instability 0      | Special hazards –     |
| HMIS | Health hazards 3 | Flammability 1 | Physical hazards 0 | Personal protection X |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|                              |                                  |
|------------------------------|----------------------------------|
| TWA (time-weighted average)  | STEL (Short Term Exposure Limit) |
| Ceiling: Maximum limit value | *: Skin designation              |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** Error! Reference source not found.30-Sep-2022

**Revision Note** The symbol (\*) in the margin of this SDS indicates that this line has been revised

**Disclaimer**

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**End of Safety Data Sheet**