AEGIS® CRACK FILL

1. Identification

Product identifier
Product Name
AEGIS® CRACK FILL

Other means of identification
LIQ2015 / LIQ2070

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

Emergency telephone number 24 Hour Emergency
Phone Number
Chemtrec 1-800-424-9300

2. Hazard(s) identification

Emergency Overview

Appearance
Transparent
Physical state
Liquid
Odor
Characteristic

Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Hazards not otherwise classified (HNOC)
Not applicable.

Label elements

Signal word
Danger
Hazard statements
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling.
Avoid breathing dust/fume/gas/mist/vapors/spray.
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.

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

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.

Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

3. Composition/information on ingredients

Substance
Not applicable.

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Trade secret</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylate Ester</td>
<td>Proprietary</td>
<td>*</td>
<td>40-69</td>
</tr>
<tr>
<td>Methacrylate Ester Monomer</td>
<td>Proprietary</td>
<td>*</td>
<td>10-24</td>
</tr>
<tr>
<td>Acrylic Acid</td>
<td>79-10-7</td>
<td>*</td>
<td>3-5</td>
</tr>
<tr>
<td>Silane Coupling Agent</td>
<td>Proprietary</td>
<td>*</td>
<td>1-3</td>
</tr>
</tbody>
</table>

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

4. First-aid measures

Description of 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
Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Inhalation
Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention.

Skin contact
Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

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

Self-protection of the first aider
Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed
Note to physicians
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 CO2.

Unsuitable extinguishing media
Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical
Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products

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
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. 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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Acid</td>
<td>TWA: 2 ppm S*</td>
<td>(vacated) TWA: 10 ppm S*</td>
<td>TWA: 2 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(vacated) TWA: 30 mg/m³ S*</td>
<td>TWA: 6 mg/m³</td>
</tr>
</tbody>
</table>

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.

Hand protection
Wear suitable gloves. Nitrile rubber, Butyl rubber.

Eye/face protection
Tight sealing safety goggles.

Skin and body protection
Wear suitable protective clothing. Long sleeved clothing.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks · Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>Transparent</td>
<td></td>
</tr>
<tr>
<td>Color:</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks · Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>pH (as aqueous solution):</td>
<td>No data available</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point / freezing point:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point:</td>
<td>101 °C / 214 °F</td>
<td>Pensky-Martens Closed Cup (PMCC)</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data available</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower flammability or explosive limits:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative vapor density:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility:</td>
<td>Partially soluble</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>438 °C / 820.4 °F</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Kinematic viscosity:</td>
<td>No data available</td>
<td>No information available</td>
</tr>
<tr>
<td>Dynamic viscosity:</td>
<td>34 cP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks · Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosive properties:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Softening point:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Molecular weight:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%):</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Liquid Density:</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Bulk density:</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

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**
Protect from light. Heat, flames and sparks.

**Incompatible materials**

**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. May cause irritation of respiratory tract.

**Eye contact:** Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.

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

**Ingestion:** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

#### Acute toxicity

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

<table>
<thead>
<tr>
<th>Category</th>
<th>Chemical</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylate Ester</td>
<td>= 4890 mg/kg ( Rat )</td>
<td>&gt; 3000 mg/kg ( Rabbit )</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Methacrylate Ester Monomer</td>
<td>= 5050 mg/kg ( Rat )</td>
<td>&gt; 3000 mg/kg ( Rabbit )</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Acrylic Acid</td>
<td>= 193 mg/kg ( Rat )</td>
<td>&gt; 2000 mg/kg ( Rabbit )</td>
<td>= 11.1 mg/L ( Rat ) 1 h</td>
<td></td>
</tr>
<tr>
<td>Silane Coupling Agent</td>
<td>= 23.5 g/kg ( Rat )</td>
<td>&gt; 2000 mg/kg ( Rat )</td>
<td>= 3.6 mg/L ( Rat ) 4 h</td>
<td></td>
</tr>
</tbody>
</table>

#### Unknown acute toxicity

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

**Component Information:**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylate Ester</td>
<td>= 4890 mg/kg ( Rat )</td>
<td>&gt; 3000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>Methacrylate Ester Monomer</td>
<td>= 5050 mg/kg ( Rat )</td>
<td>&gt; 3000 mg/kg ( Rabbit )</td>
<td>-</td>
</tr>
<tr>
<td>Acrylic Acid</td>
<td>= 193 mg/kg ( Rat )</td>
<td>&gt; 2000 mg/kg ( Rabbit )</td>
<td>= 11.1 mg/L ( Rat ) 1 h</td>
</tr>
<tr>
<td>Silane Coupling Agent</td>
<td>= 23.5 g/kg ( Rat )</td>
<td>&gt; 2000 mg/kg ( Rat )</td>
<td>= 3.6 mg/L ( Rat ) 4 h</td>
</tr>
</tbody>
</table>

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


#### 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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Acid</td>
<td>-</td>
<td>Group 3</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>
12. Ecological information

Ecotoxicity

Product Information
Testing for acute and chronic aquatic effects determined no environmental classification is required. OECD Test No. 202: Daphnia sp., Acute Immobilization Test.

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

Persistence and degradability
No information available.

Bioaccumulation
There is no data for this product.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylate Ester</td>
<td>4.52</td>
</tr>
<tr>
<td>Methacrylate Ester Monomer</td>
<td>0.47</td>
</tr>
<tr>
<td>Acrylic Acid</td>
<td>0.46</td>
</tr>
<tr>
<td>Silane Coupling Agent</td>
<td>2.1</td>
</tr>
</tbody>
</table>

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.
[14. Transport information]

IMDG Not Regulated
IATA Not Regulated
DOT Not Regulated

[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 IntroductionScheme
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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Acid</td>
<td>1.0</td>
</tr>
</tbody>
</table>

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).
### Chemicals

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Acid</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic Acid</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### 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 High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

**Revision date**
30-Sep-2022

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

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End of Safety Data Sheet