(a) GHS product identifier
Garreco Axcent 15 Minute Liquid

(b) Other means of identification
NA

(c) Recommended use of the chemical and restrictions on use
For professional dental applications.

(d) Supplier's details
Garreco, LLC.
430 Hiram Road
Heber Springs, AR 72543
Phone: 1-800-334-1443

SECTION 2: Hazards identification

(a) GHS classification of the substance/mixture
Substance Name
1. Methyl Methacrylate Monomer

(b) Label Elements

Hazard statements
Causes skin irritation
Causes severe eye irritations
May cause an allergic skin reaction
May cause respiratory irritation. May cause drowsiness or dizziness.
Highly flammable liquid and vapor.

Precautionary statements
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces.--No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. Get medical attention if irritation occurs.
If skin irritation or rash occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
In case of fire: Use CO2, dry chemical, or foam for extinction.

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

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

(c) Other hazards which do not result in classification
Harmful to aquatic life with long lasting effects
Harmful to aquatic life

SECTION 3: Composition/information on ingredients

(a) Chemical(s) Identity:

(b) Common Name:
1. Methyl Methacrylate monomer

(c) CAS No. Mixture:
80-62-6 >90%
SECTION 4: First-aid measures

(a) Description of first aid measures:
   IF IN EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
   IF ON SKIN (OR HAIR): Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek medical attention if irritation develops.
   IF INHALED: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
   IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek medical advice.

(b) Most important symptoms and effects, both acute and delayed:
   Overexposure by inhalation may cause CNS depression-drowsiness, dizziness, confusion or loss of coordination. May cause skin and eye irritation. May cause allergic skin reaction. Will cause gastrointestinal tract irritation.

(c) Indication of any immediate medical attention and special treatment needed:
   Note to Physicians: Treat symptomatically. Can cause allergic response in susceptible or hypersensitive individuals upon repeated or prolonged exposure.

SECTION 5: Fire-fighting measures

(a) Suitable extinguishing media:
   Foam, Dry Chemical, Carbon Dioxide.
   Unsuitable Extinguishing Media: Water jet.

(b) Special hazards arising from the chemical or mixture:
   Vapors may travel to source of ignition and flash back.
   Sensitivity to Static Discharge: Take precautionary measures against static discharge. Flammable mixtures of this product are readily ignited even by static discharge.

(c) Special protective equipment and precautions for fire-fighters:
   As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

(a) Personal precautions, protective equipment and emergency procedures:
   Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Remove all sources of ignition. The wet contaminated surface may be slippery.
   Environmental Precautions: 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). See section 12 for additional ecological information.

(b) Methods and material for containment and cleaning up:
   Methods for Containment: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite).
   Methods for Cleaning Up: Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. Wash spill area with a mild detergent.
SECTION 7: Handling and storage

(a) Precautions for safe handling:

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. --No smoking. Take precautionary measures against static discharges. Ground container and transfer equipment to eliminate static electric sparks. Use spark-proof tools and explosion-proof equipment. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Use only in well-ventilated areas. Keep containers closed when not in use. Keep cool.

(b) Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed and store in a cool, dry and well-ventilated place. Store between 16°-26°C (69°-79°F). Store locked up. Protect from damp. Store away from heat and incompatible materials.


SECTION 8: Exposure controls/Personal protection

(a) Control parameters:

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Methyl Methacrylate</td>
<td>STEL: 100 ppm</td>
<td>TWA: 100 ppm</td>
<td>IDLH: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm</td>
<td>TWA: 410 mg/m³</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated)</td>
<td>TWA: 100 ppm</td>
<td></td>
</tr>
</tbody>
</table>

(b) Appropriate Engineering Controls:

Good ventilation is required.

c) Individual protection measures:

EYE PROTECTION: Splash googles or safety glasses.

SKIN AND BOODY PROTECTIONS: Polyethylene / Nitrile gloves. Do not use cotton gloves. Rubber boots. Polyethylene apron is recommended.

RESPIRATORY: Ensure adequate ventilation, especially in confined areas. Use NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

GENERAL HYGIENE CONSIDERATIONS: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

(a) Appearance: Colorless liquid
(b) Odor: Characteristic
(c) Odor threshold: Not determined
(d) pH: Not determined
(e) Melting point / freezing point: Not determined
(f) Initial boiling point and boiling range: 100°C / 212°F @ 760 mm HG
(g) Flash point: 8°C / 46.4°F Tag Closed Cup
(h) Evaporation rate (BuAc=1): +1 (butyl acetate=1)
(i) Flammability: Not determined
(j) Upper/lower flammability or explosive limits: 12 / 1.5%
(k) Vapor Pressure: Not determined
(l) Vapor density: +1 (Air=1)
(m) Relative density: -1 (1=Water)
(n) Solubility: Slightly soluble, Not determined in other solvents
(o) Partition coefficient: n-octanol/water: Not determined
(p) Auto-ignition temperature: 430°C / 806°F
(q) Decomposition temperature: Not determined
(r) Viscosity: Not determined
SECTION 10: Stability and reactivity

(a) Reactivity: Not reactive under normal conditions.
(b) Chemical stability: Stable under recommended storage conditions.
(c) Possibility of hazardous reactions: Prolonged exposure to elevated temperatures which can cause premature polymerization and release methyl methacrylate vapors.
(d) Conditions to avoid: Temperatures >35°C (95°F).
(e) Incompatible Materials: Organic peroxides, Reducing agent, Metallic Redox systems, Strong oxidizing agents.
(f) Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

Acute toxicity
- Skin corrosion/irritation: Causes skin irritation. May cause allergic skin reaction.
- Serious Eye Damage / Irritation: Causes serious eye irritation.
- Respiratory or skin sensitization: May cause irritation to the mucous membranes and upper respiratory tract.

Germ cell mutagenicity: Not determined
Carcinogenicity: Methyl Methacrylate Monomer - IARC - Group 3
Reproductive toxicity: Not determined
STOT-single exposure: May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure: Not determined
Aspiration Hazard: Not determined

(a) Exposure route: Please see above for normal exposure routes.
(b) Symptoms related to the physical, chemical and toxicological characteristics:
   Please see section 4 of this SDS for symptoms.
(c) Delayed and immediate effects and also chronic effects from short and long tem exposure:
   Please see above for effects.
(d) Numerical measures of toxicity:
   Oral LD50 >7872 mg/kg (rat)
   Dermal LD50 >5 g/kg (rabbit)
   Inhalation LC50 4632 ppm (rat) 4 h, 400 ppm (rat) 1 hr

SECTION 12: Ecological information

(a) Ecotoxicity:
- Methyl Methacrylate
  Aquatic Plants
  Fish
  Crustacea
  170: 96h Pseudokirchneriella subcapitata mg/L EC50
  243-275: 96 h Pimephales promelas mg/L LC50 flow-through
  125.5-190.7: 96 h Pimephales promelas mg/L LC50 static
  170-206: 96 h Lepomis macrochirus mg/L LC50 flow-through
  153.9-341.8: 96 h Lepomis macrochirus mg/L LC50 static
  79: 96 h Oncorhynchus mykiss mg/L LC50 static
  326.4-426-9: 96 h Poecilia reticulata mg/L LC 50 static
  69: 48 h Daphnia magna mg/L EC50

(b) Persistence and degradability: Not determined
(c) Bioaccumulative potential: Not determined
(d) Mobility in soil: Methyl Methacrylate Monomer - Partition Coefficient: 0.7
(e) Other adverse effects: Not determined
SECTION 13: Disposal considerations

**Product:**

**Recommendation**

- **Disposal of Wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- **Contaminated Packaging:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Methyl Methacrylate - RCRA:**

- **UN Number:** UN1247
- **Proper shipping name:** Methyl methacrylate monomer, stabilized
- **Transport hazard class(es):** 3
- **Packing Group:** II
- **Environmental hazards:** Not determined
- **Transport in bulk:** Not determined
- **Other Information:** Not determined

SECTION 14: Transport information

(a) **UN Number**

(b) **UN Proper shipping name**

(c) **Transport hazard class(es)**

(d) **Packing Group**

(e) **Environmental hazards**

(f) **Transport in bulk**

(g) **Other Information**

SECTION 15: Regulatory information

**SARA Reporting Requirements:**

- Yes

**SARA Threshold Planning Quantity:**

- 1.00%

**TSCA Inventory Status:**

- Not determined

**Other Federal Requirements:**

- **CERCLA - Hazardous Substances RQs:** 1000 lb - Reportable Quantity: RQ 1000 lb final RQ, RQ 454 kg final RQ
- **CWA - CWA - Reportable Quantities:** 1000 lb

**Other Canadian Regulations:**

- Not determined

**State Regulatory Information:**

- **U.S. State Right-to-Know Regulations:** New Jersey, Massachusetts, Pennsylvania
HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:

- Health Not determined
- Flammability Not determined
- Reactivity Not determined
- Other Not determined

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

- Health Not determined
- Flammability Not determined
- Reactivity Not determined
- Special Information Not determined

REVISION NUMBER: 160425

CHANGES FROM PREVIOUS VERSION: INITIAL VERSION

ABBREVIATIONS

<table>
<thead>
<tr>
<th>NA Not Applicable</th>
<th>LD Lethal Dose</th>
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<tbody>
<tr>
<td>ND Not Determined</td>
<td>TC Toxic Concentration</td>
</tr>
<tr>
<td>NE Not Established</td>
<td>TD Toxic Dose</td>
</tr>
<tr>
<td>ppm parts per million</td>
<td>BOD Biological Oxygen Demand</td>
</tr>
<tr>
<td>G Gallon</td>
<td>COD Chemical Oxygen Demand</td>
</tr>
<tr>
<td>mg Milligram</td>
<td>Lo Lowest</td>
</tr>
<tr>
<td>L Liter</td>
<td>ThOD Theoretical Oxygen Demand</td>
</tr>
<tr>
<td>gm Gram</td>
<td>TLm Threshold Limit</td>
</tr>
<tr>
<td>mol Mole</td>
<td>IC Inhibitory Concentration</td>
</tr>
<tr>
<td>kg Kilogram</td>
<td>DOC Dissolved Organic Carbon</td>
</tr>
<tr>
<td>µ Micro</td>
<td>H Hours</td>
</tr>
<tr>
<td>mm Millimeter</td>
<td>M Months</td>
</tr>
<tr>
<td>p Pico</td>
<td>D Days</td>
</tr>
<tr>
<td>Pa Pascals</td>
<td>Y Years</td>
</tr>
<tr>
<td>c cento</td>
<td>W Weeks</td>
</tr>
<tr>
<td>LC Lethal Concentration</td>
<td>NOEL No Observed Effect Level</td>
</tr>
<tr>
<td>ACGIH American Conference of Governmental Industrial Hygienist</td>
<td>NOAEL No Observed Adverse Effect Level</td>
</tr>
<tr>
<td>CPR Controlled Product's Regulation</td>
<td>DSL Canadian Domestic Substances List</td>
</tr>
<tr>
<td>NDSL Canadian Non-domestic Substance List</td>
<td>PEL Permis sible Exposure Limit</td>
</tr>
<tr>
<td>IARC International Agency for Research for Cancer</td>
<td>TLV Threshold Limit Value</td>
</tr>
<tr>
<td>OSHA Occupational Safety and Health Administration</td>
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</tbody>
</table>

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