2 COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Registry Number</th>
<th>Typical %</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acrylate</td>
<td>140-88-5</td>
<td>&lt;0.1</td>
<td>Y</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>80-62-6</td>
<td>&lt;0.5</td>
<td>Y</td>
</tr>
<tr>
<td>Acrylic Copolymers</td>
<td>Proprietary</td>
<td>99.5</td>
<td>N</td>
</tr>
</tbody>
</table>

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

While this material is not classified as hazardous under Federal OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview
Various color pellets with mild odor
CAUTION!
MELT PROCESSING RELEASES VAPORS WHICH MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION

Potential Health Effects

Skin contact and inhalation of dust are expected to be the primary routes of occupational exposure to this material. As a finished product, it is a synthetic, high molecular weight polymer pellet. Due to its chemical and physical properties, this material does not require special handling other than the good industrial hygiene and safety practices employed with any industrial material of this type.

Ethyl acrylate is classified as possibly carcinogenic to humans (Group 2B) by the International Agency for Research on Cancer (IARC).
4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water.

IN CASE OF CONTACT, flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.

IF INHALED, remove to fresh air.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties
Auto-Ignition Temperature 393 C/739 F
Flash Point NA
Flash Point Method
Flammable Limits- Upper NA
Lower NA

Extinguishing Media
Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions
Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards
Heated material can form flammable vapors with air.

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak
Contain spill. Sweep or scoop up and remove to suitable container. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

Handling
Avoid breathing dust and processing vapors. Process using adequate ventilation.

Storage
Avoid temperature extremes during storage; ambient temperature preferred.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls
Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation if necessary to control exposure levels below airborne exposure limits (see below). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection
Use good industrial practice to avoid eye contact.
8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin Protection
Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection
Avoid breathing dust. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

<table>
<thead>
<tr>
<th>Exposure Limit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acrylate</td>
<td></td>
</tr>
<tr>
<td>ACGIH STEL</td>
<td>-</td>
</tr>
<tr>
<td>ACGIH TWA</td>
<td>-</td>
</tr>
<tr>
<td>OSHA Skin designator</td>
<td>-</td>
</tr>
<tr>
<td>OSHA TWA PEL</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>15 ppm; 61 mg/m3</td>
</tr>
<tr>
<td></td>
<td>5 ppm 20 mg/m3</td>
</tr>
<tr>
<td></td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>25 ppm 100 mg/m3</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td></td>
</tr>
<tr>
<td>ACGIH Sensitizer Designator</td>
<td>-</td>
</tr>
<tr>
<td>ACGIH STEL</td>
<td>-</td>
</tr>
<tr>
<td>ACGIH TWA</td>
<td>-</td>
</tr>
<tr>
<td>OSHA TWA PEL</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>100 ppm (410 mg/m3)</td>
</tr>
<tr>
<td></td>
<td>50 ppm (205 mg/m3)</td>
</tr>
<tr>
<td></td>
<td>100 ppm (410 mg/m3)</td>
</tr>
</tbody>
</table>

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Odor</td>
<td>Various color pellets with mild odor</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.15 to 1.19</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>132 C/270 F</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>NA</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility In Water</td>
<td>NA</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>0</td>
</tr>
</tbody>
</table>

Product Code: 13138  Revision: 5  Issued: 03 MAY 2005  Page 3 of 6
10 STABILITY AND REACTIVITY

Stability
This material is chemically stable under normal and anticipated storage and handling conditions.

Hazardous Polymerization
Does not occur.

Incompatibility
Prolonged contact with acids, alkalis and strong oxidizing agents may attack or dissolve the polymer.

Hazardous Decomposition Products
Thermal decomposition may yield acrylic monomers.

Thermal decomposition begin to generate monomer vapors >300 deg C.

11 TOXICOCLOGICAL INFORMATION

Toxicological Information
No data are available.

12 ECOLOGICAL INFORMATION

Ecotoxicological Information
No data are available.

Chemical Fate Information
No data are available.

13 DISPOSAL CONSIDERATIONS

Waste Disposal
Incineration is the recommended method for disposal observing all local, state and federal regulations.

14 TRANSPORT INFORMATION

DOT Name
Not Regulated

DOT Technical Name

DOT Hazard Class

UN Number

DOT Packing Group
PG

RQ

15 REGULATORY INFORMATION
Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)
Immediate (Acute) Health: Y Fire: N
Delayed (Chronic) Health: N Reactive: N
Sudden Release of Pressure: N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CERCLA RQ</th>
<th>SARA TPQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acrylate</td>
<td>1000 LBS</td>
<td>NE</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>1000 LBS</td>
<td>NE</td>
</tr>
<tr>
<td>Acrylic Copolymers</td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

SARA Title III, Section 313
This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. See Section 2
Ethyl acrylate
Methyl methacrylate

California Prop 65 - Carcinogen
This product does contain the following chemical(s), as indicated below, currently on the California list of Known Carcinogenic:
Ethyl acrylate

Massachusetts Right to Know
This product does contain the following chemical(s), as indicated below, currently on the Massachusetts Right to Know Substance List.
Ethyl acrylate
Methyl methacrylate

New Jersey Right to Know
This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List.
Ethyl acrylate
Methyl methacrylate

Pennsylvania Environmental Hazard
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List.
Ethyl acrylate
Methyl methacrylate

Pennsylvania Right to Know
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List.
Ethyl acrylate
Methyl methacrylate

Pennsylvania Special Hazard
This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Special Hazard List.
Ethyl acrylate

16 OTHER INFORMATION
ARKEMA

PLEXIGLAS(R) MI7-101 Acrylic Resin
Material Safety Data Sheet
Arkema Inc.

Revision Information
Revision Date: 03 MAY 2005
Supersedes Revision Dated: 03-MAY-2005
Revision Number 5

Revision Summary
The Atoglas Division of Arkema Inc. has changed its name to Altuglas International.

Key
NE= Not Established  NA= Not Applicable  (R) = Registered Trademark

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