

## Safety Data Sheet acc. to OSHA HCS

Printing date 01/23/2018

Reviewed on 01/23/2018

### 1 Identification

- **Product identifier**
  - **Trade name: AR4315HP Cream B**
    - **Recommended use** Acrylic Activator
    - **Restrictions on use** For industrial use only
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
ResinLab, LLC  
N109 W13300 Ellsworth Drive  
Germantown, WI 53022  
1-877-259-1669  
www.resinlab.com
  - **Information Department:** Product Safety Department: msds@resinlab.com
  - **Emergency Telephone Number:**  
North America - Chemtrec: 1-800-424-9300 (24 hours)  
International - Chemtrec: 01-703-527-3887 (24 hours)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
Skin Irrit. 2 H315 Causes skin irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.
- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**



GHS02    GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Methyl methacrylate
- **Hazard statements**  
H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.
- **Precautionary statements**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a poison center/doctor if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
In case of fire: Use for extinction: CO2, powder or water spray.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
  - **NFPA System**
    - **NFPA ratings (scale 0 - 4)**



NFPA special hazards (water reactivity and oxidizing property): None

- **HMIS System**
    - **HMIS-ratings (scale 0 - 4)**
- |            |   |                |
|------------|---|----------------|
| HEALTH     | 2 | Health = 2     |
| FIRE       | 3 | Fire = 3       |
| REACTIVITY | 2 | Reactivity = 2 |

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- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 RTECS: OZ 5075000	Methyl methacrylate	Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-60%
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- **Additional information:**

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**
  - **General information:**  
Keep warm, position comfortably and cover well.  
Immediately remove any clothing soiled by the product.
  - **After inhalation:**  
Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.  
Supply fresh air and if symptoms occur call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Remove all contaminated clothing and wash before reuse.  
If skin rash or irritation occurs, seek medical advice.
  - **After eye contact:**  
Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes.  
If symptoms develop seek medical attention.
  - **After swallowing:**  
If victim is unconscious; never give anything by mouth.  
Rinse out mouth and then drink plenty of water.  
Get medical attention
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
    - **Indication of any immediate medical attention and special treatment needed**  
Check section 11 Toxicological Information for further relevant information.

### 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**  
Use fire fighting measures that suit the environment.  
Carbon dioxide  
dry chemical  
Fire-extinguishing powder  
Alcohol resistant foam
  - **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
Caution! Highly flammable liquid or vapor.  
Caution! May polymerize explosively when heated or involved in a fire.  
In case of fire, the following can be released:  
Various hydrocarbons  
Nitrogen oxides  
Irritating isocyanate vapors may be released during a fire.  
Irritating organic vapors.  
Hydrogen cyanide (HCN)  
Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)
- **Advice for firefighters**
  - **Protective equipment:**  
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).  
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Caution! Highly flammable liquid or vapor; wear fire resistant or retardant clothing during clean up.  
Wear protective clothing.  
Wear protective equipment. Keep unprotected persons away.  
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

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- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.  
For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.  
Ensure adequate ventilation.  
Non sparking tools should be used.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Keep away from incompatible material(s).  
Avoid any release into the environment.  
Do not breathe dust/fumes/mist/vapor/spray.  
Avoid contact with eyes, skin and clothing.  
Keep away from heat, sparks, flames and ignition sources.  
Observe all the personal protection requirements in Section 8.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**  
Suitable material for receptacles and pipes: Copper.  
Store only in the original receptacle.  
Store in a cool location.  
Keep stored in accordance with local, regional, national, and international regulations.

### 8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**

**80-62-6 Methyl methacrylate**

PEL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 410 mg/m <sup>3</sup> , 100 ppm Long-term value: 205 mg/m <sup>3</sup> , 50 ppm
DSEN	

- **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

- **Exposure controls**  
If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.  
If exposure limits have not been established, maintain airborne levels to an acceptable level.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Be sure to clean skin thoroughly after work and before breaks.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Avoid contact with the eyes and skin.

- **Personal Protective Equipment (PPE)**

- **Breathing equipment:**

- Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.
- Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

- **Protection of hands:**

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**



Chemical resistant gloves

- **Eye protection:**



Safety Glasses with side shields

- **Body protection:** Appropriate chemical resistant clothing.

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· **Limitation and supervision of exposure into the environment**

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Pasty
- **Color:** light brown
- **Odor:** acrylic like
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

· **Flash point:** 10 °C (50 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not determined.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

- **Lower:** 2.1 Vol %
- **Upper:** 12.5 Vol %

· **Vapor pressure:** 29mm Hg@20C

· **Vapor Density:** not determined

· **Density at 20 °C (68 °F):** 0.97 g/cm<sup>3</sup> (8.09 lbs/gal)

- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

- **Dynamic:** Not available.
- **Kinematic:** Not available.
- **VOC content:** 0.00 %  
0.0 g/l / 0.00 lb/gal

### 10 Stability and reactivity

· **Reactivity** Highly flammable liquid or vapor.

· **Hazardous Reactivity and Chemical Stability**

May form explosive vapor-air mixtures when heated above the flash point.

Stable under normal conditions of use, storage and temperatures.

May polymerize explosively when heated or involved in a fire.

· **Possibility of hazardous reactions** In contact with incompatible materials.

· **Conditions to avoid**

Keep away from heat, sparks, flame and any other ignition sources.

The substance/mixture is highly flammable.

· **Incompatible materials:**

- Moisture.
- Amines
- Ultraviolet radiation.
- Oxidizing agents
- Strong acids
- Strong bases
- Reducing agents

· **Hazardous decomposition products:** Possible in traces.

· **Additional information:**

As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

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### 11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

**80-62-6 Methyl methacrylate**

Oral	LD50	>6,000 mg/kg (rat)
Dermal	LD50	>7,550 mg/kg (rabbit)
Inhalative	LC50/4 h	27.5 mg/l (rat) (Calculated from LC50/4hrs of 7093 ppm)

- Primary irritant effect: cough

- on the skin: Irritant to skin and mucous membranes.

- on the eye: No irritating effect.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

80-62-6	Methyl methacrylate	3
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- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- Toxicity

- Aquatic toxicity:

**80-62-6 Methyl methacrylate**

EC50 mg/kg (rabbit) (OECD TG 404)

- Persistence and degradability No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential No data available.

- Mobility in soil No further relevant information available.

- Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative.

- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment

- PBT: None of the ingredients is listed.

- vPvB: None of the ingredients is listed.

- Other adverse effects No further relevant information available.

### 13 Disposal considerations

- Waste treatment methods

- RCRA Waste:

80-62-6	Methyl methacrylate	U162	50-60%
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- Recommendation:

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:

- Recommendation: Dispose of according to your local waste regulations.

### 14 Transport information

- UN-Number

- DOT, IMDG, IATA

UN1133

- UN proper shipping name

- DOT

- IMDG, IATA

Adhesives  
ADHESIVES

- Transport hazard class(es)

- DOT



- Class

3 Flammable liquids

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<b>· Label</b>	3
<b>· IMDG, IATA</b>	
	
<b>· Class</b>	3 Flammable liquids
<b>· Label</b>	3
<b>· Packing group</b>	III
<b>· DOT, IMDG, IATA</b>	III
<b>· Environmental hazards:</b>	Not applicable.
<b>· Special precautions for user</b>	Warning: Flammable liquids
<b>· Danger code (Kemler):</b>	33
<b>· EMS Number:</b>	F-E,S-D
<b>· Stowage Category</b>	A
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>· Transport/Additional information:</b>	
<b>· DOT</b>	
<b>· Quantity limitations</b>	On passenger aircraft/rail: 5L On cargo aircraft only: 60L
<b>· IMDG</b>	
<b>· Limited quantities (LQ)</b>	5L
<b>· UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, III

### 15 Regulatory information

**· Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· SARA Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**· SARA Section 313 (Specific toxic chemical listings):**

80-62-6 Methyl methacrylate 50-60%

**· SARA Section 311/312 (Hazardous Chemical Inventory Reporting)**

None of the ingredients is listed.

**· Hazard Abbreviations for SARA 311/312**

A - Acute Health Hazard  
 C - Chronic Health Hazard  
 F - Fire Hazard  
 R - Reactive Hazard  
 S - Sudden Release of Pressure Hazard

**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**· Proposition 65**
**· Chemicals known to cause cancer:**

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

80-62-6 Methyl methacrylate E, NL

**· TLV (Threshold Limit Value established by ACGIH)**

80-62-6 Methyl methacrylate A4

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· International Regulation Lists**
**· Chinese Chemical Inventory of Existing Chemical Substances:**

All ingredients are listed.

**· GHS label elements GHS label elements**

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· **National regulations:**

· **Japanese Existing and New Chemical Substance List:**

All ingredients are listed.

· **Korean Existing Chemical Inventory:**

All ingredients are listed.

· **European Pre-registered substances:**

All ingredients are listed.

· **EINECS List:**

All ingredients are listed.

· **ELINCS List:**

None of the ingredients is listed.

· **REACH - Substances of Very High Concern (SVHC) List:**

None of the ingredients is listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department Issuing (M)SDS:** Product Development Department
- **Contact:** msds@resinlab.com
  - **Date of preparation / last revision** 01/23/2018 / 2
  - **\* Data compared to the previous version altered.**