

## Safety Data Sheet acc. to OSHA HCS

Printing date 10/26/2017

Reviewed on 10/26/2017

### 1 Identification

- **Product identifier**
  - **Trade name:** CA6702
  - **Recommended use** Cyanoacrylate Adhesive
  - **Restrictions on use** 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. 4 H227 Combustible liquid.  
Eye Dam. 2B H320 Causes eye irritation.  
· **Additional information:** Cyanoacrylate. Bonds skin and eyes in seconds.
  - **Label elements**
    - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
    - **Hazard pictograms** Not classified
    - **Signal word** Warning
    - **Hazard statements**  
H227 Combustible liquid.  
H320 Causes eye irritation.
    - **Precautionary statements**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin: Wash with plenty of soap and water.  
If INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center/doctor if you feel unwell.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use for extinction: CO2, sand, extinguishing powder.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
  - **Classification system:**
    - **NFPA System**
      - **NFPA ratings (scale 0 - 4)**
- 

Health = 2  
 Fire = 2  
 Reactivity = 1
- NFPA special hazards (water reactivity and oxidizing property): None
- **HMIS System**
    - **HMIS-ratings (scale 0 - 4)**
- |            |   |
|------------|---|
| HEALTH     | 2 |
| FIRE       | 2 |
| REACTIVITY | 1 |

Health = 2  
 Fire = 2  
 Reactivity = 1
- **Other hazards**
    - **Results of PBT and vPvB assessment**
      - **PBT:** Not applicable.
      - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Dangerous components:**

27816-23-5 Beta-Methoxyethyl Cyanoacrylate	Flam. Liq. 4, H227; Eye Dam. 2B, H320	80-90%
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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.

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- **After inhalation:**  
Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Seek immediate medical advice.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin rash or irritation occurs, seek medical advice.  
Do not pull bonded skin apart. Use a blunt object such as a spoon to gently release the bonded skin. Soaking in warm soapy water will aid with the debonding.
- **After eye contact:**  
Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.
- **After swallowing:**  
Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.
- **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  
Water spray  
Fire-extinguishing powder
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)  
Nitrogen oxides  
Hydrogen cyanide (HCN)
- **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**  
Wear protective clothing.  
Wear protective equipment. Keep unprotected persons away.  
Do not breathe the gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:**  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.
- **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.  
For industrial or professional use only  
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:**  
Provide ventilation for receptacles.  
Keep stored in accordance with local, regional, national, and international regulations.

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### 8 Exposure controls/personal protection

- **Control parameters**

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

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **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.

- Wash hands before breaks and at the end of work.

- 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.

- **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:**

Liquid

- **Color:**

Clear

- **Odor:**

Irritant

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

&gt;149 °C (&gt;300.2 °F)

- **Flash point:**

93 °C (199.4 °F)

- **Flammability (solid, gaseous):**

Not applicable.

- **Ignition temperature:**

Not determined.

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Product is not selfigniting.

- **Danger of explosion:**

Not determined.

- **Explosion limits:**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Vapor pressure:**

Not determined.

- **Vapor Density:**

not determined

- **Density at 20 °C (68 °F):**

1.05 g/cm<sup>3</sup> (8.76 lbs/gal)

- **Relative density**

Not determined.

- **Vapor density**

Not determined.

- **Evaporation rate**

Not determined.

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- **Solubility in / Miscibility with**
  - **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity at 20 °C (68 °F):** 5 cps
  - **Dynamic:** Not available.
  - **Kinematic:** Not available.
  - **VOC content:** 0.00 %  
0.0 g/l / 0.00 lb/gl

### 10 Stability and reactivity

- **Reactivity** Not a regulated physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability**  
May decompose, condense, or self-react under conditions of high temperature and/or pressure; but there is little or no potential for heat generation or explosion, or readily undergo hazardous polymerization in the absence of inhibitors.
- **Thermal decomposition / conditions to be avoided:**  
To avoid thermal decomposition do not overheat.  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** In contact with incompatible materials.
- **Conditions to avoid**  
Moisture  
Keep away from heat, sparks, flame and any other ignition sources.
- **Incompatible materials:**  
Water  
Alcohols  
Amines  
Bases (Alkalis)
- **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.

### 11 Toxicological information

- **Information on toxicological effects**
    - **Acute toxicity:**
      - **LD/LC50 values that are relevant for classification:**
- | 9011-14-7 Methyl methacrylate homopolymer |          |                           |
|---|----------|---------------------------|
| Oral                                      | LD50     | mg/kg (No data available) |
| Dermal                                    | LD50     | mg/kg (No data available) |
| Inhalative                                | LC50/4 h | mg/l (No data available)  |
- **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **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)**

9011-14-7	Methyl methacrylate homopolymer	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:**
      - **27816-23-5 Beta-Methoxyethyl Cyanoacrylate**
- |  |                           |
|--|---------------------------|
| EC50   | mg/kg (Test species: n/a) |
| Contact with skin during product use is not expected to result in skin irritation. |                           |
| <b>9011-14-7 Methyl methacrylate homopolymer</b>                                   |                           |
| EC50   | mg/kg (No data available) |
- **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:** Generally not hazardous for water
  - **Results of PBT and vPvB assessment**
    - **PBT:** None of the ingredients is listed.
    - **vPvB:** None of the ingredients is listed.

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· **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**
  - **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, ADN, IMDG  
· IATA not regulated  
UN3334
- **UN proper shipping name**  
· DOT, ADN, IMDG  
· IATA Aviation Regulated Liquid, n.o.s. (Cyanoacrylate ester)  
not regulated  
Aviation regulated liquid, n.o.s.
- **Transport hazard class(es)**  
· DOT, ADN, IMDG  
· Class not regulated
- IATA
- 
  - Class 9 Miscellaneous dangerous substances and articles
  - Label 9
- **Packing group**  
· DOT, IMDG  
· IATA not regulated  
III
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **Transport/Additional information:**
  - IATA
  - **Remarks:** Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.
- **UN "Model Regulation":** not regulated

### 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):**

None of the ingredients is listed.

- **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.

- **TSCA new (21st Century Act) (Substances not listed)**

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

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

None of the ingredients is listed.

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· **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)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **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

· **National regulations:**

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

All ingredients are listed.

· **Korean Existing Chemical Inventory:**

9011-14-7 Methyl methacrylate homopolymer

· **European Pre-registered substances:**

All ingredients are listed.

· **EINECS List:**

None of the ingredients is 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** 10/26/2017 / 6

· \* **Data compared to the previous version altered.**