

Safety Data Sheet acc. to OSHA HCS

Printing date 08/30/2018

Reviewed on 08/30/2018

1 Identification

- **Product identifier**
 - **Trade name:** CA7008
 - **Recommended use** Cyanoacrylate Adhesive
 - **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. 4 H227 Combustible liquid.
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2A H319 Causes serious eye irritation.
 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**



GHS07
 - **Signal word** Warning
 - **Hazard-determining components of labeling:**
Ethyl 2-cyanoacrylate
 - **Hazard statements**
 H227 Combustible liquid.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 - **Precautionary statements**
 Keep away from flames and hot surfaces. – No smoking.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 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 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 eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash it 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)**



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

HEALTH	2
FIRE	2
REACTIVITY	0

Health = 2
Fire = 2
Reactivity = 0
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.

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· vPvB: Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Dangerous components:**

CAS: 7085-85-0 EINECS: 230-391-5 Index number: 607-236-00-9 RTECS: UD3330050	Ethyl 2-cyanoacrylate	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Flam. Liq. 4, H227	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:** 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.

In case of unconsciousness place patient stably in side position for transportation.

Seek medical advice if any symptoms develop.

- **After skin contact:**

Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.

- **After eye contact:**

If eyelashes are bonded use cloth and warm water to release. Keep eye covered until bond releases. Weeping of the eye is normal and will help aid in the debonding process.

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.

Remove contact lenses if present and easy to do so; continue rinsing.

- **After swallowing:**

If victim is unconscious; never give anything by mouth.

Peel or roll skin apart. Adhesive becomes solid in contact with saliva and may adhere to inside of mouth. Saliva will lift adhesive in 1-2 days. Avoid swallowing solid adhesive after detachment.

- **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:**

dry chemical
Alcohol resistant foam
Carbon dioxide
Water spray

- **Special hazards arising from the substance or mixture**

Carbon dioxide (CO₂) and Carbon monoxide (CO)

Nitrogen oxides

- **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 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.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Flood with water to polymerize and scrape off of the floor. Dispose as non hazardous waste.

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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:**
 - 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:**

7085-85-0 Ethyl 2-cyanoacrylate

TLV	Short-term value: 5.1 mg/m ³ , 1 ppm
	Long-term value: 1 mg/m ³ , 0.2 ppm
	DSEN, RSEN

- **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:**

- 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:** Pungent
- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- **Melting point/Melting range:** -31 °C (-23.8 °F)

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· Boiling point/Boiling range:	214 °C (417.2 °F)
· Flash point:	82 °C (179.6 °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):	1.04 g/cm ³ (8.68 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** No further relevant information available.
- **Hazardous Reactivity and Chemical Stability** May form explosive vapor-air mixtures when heated above the flash point.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** In contact with incompatible materials.
- **Conditions to avoid**
Keep away from heat, sparks, flame and any other ignition sources.
Moisture
- **Incompatible materials:**
water, soil, amines, alcohols
Strong bases
- **Hazardous decomposition products:** Refer to section 5.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

7085-85-0 Ethyl 2-cyanoacrylate

Oral	LD50	>5,000 mg/kg (rat) (OECD TG 401; males; neat substance) One out of six rats died on the fourth day at 5000 mg/kg dose level; the substance was not classified as toxic to rats based on the classification criteria. Reference: ECHA (2012).
Dermal	LD50	>2,000 mg/kg (rabbit) (LD0; OECD TG 402; males; neat substance) No mortality occurred; the substance was therefore considered as non-toxic via dermal application. Reference: ECHA (2012).
Inhalative	LC50/4 h	>21.1 mg/l (rat) (LC50/1 hour; vapor) Reference: ACToR (2012).

Primary irritant effect:

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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12 Ecological information

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

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:** 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	not regulated Aviation regulated liquid, n.o.s. (Ethyl 2-cyanoacrylate)
· Transport hazard class(es) · DOT, ADN, IMDG · Class	not regulated
· IATA	
	
· Class · Label	9 Miscellaneous dangerous substances and articles 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":	UN3334, AVIATION REGULATED LIQUID, N.O.S. (Ethyl 2-cyanoacrylate), 9, III 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.
· Section 311/312 (Hazardous Chemical Inventory reporting)
· 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

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· **TSCA 8 (b) Inventory:**

All ingredients are listed.

· **TSCA new (21st Century Act)**

7085-85-0 Ethyl 2-cyanoacrylate

ACTIVE/EXEMPT

· **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.

· **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**

· **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** 08/30/2018 / -

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