

Safety Data Sheet acc. to OSHA HCS


Printing date 06/14/2017

Reviewed on 06/14/2017

1 Identification

- **Product identifier**
 - **Trade name: CA5213**
 - **Application of the substance / the mixture** Cyanoacrylate Adhesive
- **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.
 - **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 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 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, powder or water spray.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Classification system:**
 - **NFPA System**
 - **NFPA ratings (scale 0 - 4)**
- 

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

Health = 1
 Fire = 2
 Reactivity = 0
- **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: 27816-23-5	Beta-Methoxyethyl Cyanoacrylate	Flam. Liq. 4, H227; Eye Dam. 2B, H320	90-100%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 RTECS: MX 3500000	1,4-dihydroxybenzene	Muta. 2, H341; Carc. 2, H351 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Sens. 1, H317	0.025-<0.1%

- **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.

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4 First-aid measures

• **Description of first aid measures**

• **General information:** Keep warm, position comfortably and cover well.

• **After inhalation:**

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air; consult doctor in case of complaints.

• **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. If skin irritation or rash occurs, get medical advice/attention.

• **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.

Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

• **For safety reasons unsuitable extinguishing agents:** No relevant information.

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

Caution! Combustible liquid.

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon dioxide (CO₂) 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! Combustible liquid; wear fire/flame resistant or retardant clothing during cleaning up.

Wear protective clothing.

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

• **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.

• **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Flood area to polymerize material then soak up with an inert absorbant.

Non sparking tools should be used.

Dispose contaminated material as waste according to item 13.

7 Handling and storage

• **Handling:**

• **Precautions for safe handling**

Open and handle receptacle with care.

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:**

Store only in the original receptacle.

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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the remaining constituent has no known exposure limits.

123-31-9 1,4-dihydroxybenzene

PEL	Long-term value: 2 mg/m ³
REL	Ceiling limit value: 2* mg/m ³ *15-min
TLV	Long-term value: 1 mg/m ³ 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:**

Avoid contact with the eyes.
Be sure to clean skin thoroughly after work and before breaks.

· **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:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.



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:	Colorless
· Odor:	Odorless
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	74 °C (165 °F)

· **Flash point:** 80-93 °C (176-199 °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.

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- **Vapor Density:** not determined
- **Density at 20 °C (68 °F):** 1.13 g/cm³ (9.43 lbs/gal)
 - **Vapor density** Not applicable.
 - **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
 - **Water:** Not miscible or difficult to mix.
- **Viscosity:**
 - **Dynamic:** Not available.
 - **Kinematic:** Not available.

10 Stability and reactivity

- **Reactivity** Combustible liquid.
 - **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
 - **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** Keep away from heat, sparks, flame and any other ignition sources.
 - **Incompatible materials:**
Strong reducing agents
alkali metals
Oxidizing agents
Bases (Alkalis)
Amines
Water
 - **Hazardous decomposition products:** Possible in traces.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values that are relevant for classification:** See acute inhalative effect(s) for further information
 - **Specific symptoms in biological assay:**
No further relevant information available; classification is not possible.
See acute inhalative effect(s) for further information.
 - **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**
 - **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information 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:**
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**
 - **Recommendation:** Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
 - **Recommendation:** Dispose of according to your local waste regulations.

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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADN, IMDG · IATA 	not regulated UN3334
<ul style="list-style-type: none"> · UN proper shipping name · DOT, ADN, IMDG · IATA 	not regulated Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT, ADN, IMDG · Class 	not regulated
<ul style="list-style-type: none"> · IATA 	not regulated
	
<ul style="list-style-type: none"> · Class · Label 	9 Miscellaneous dangerous substances and articles 9
<ul style="list-style-type: none"> · Packing group · DOT, IMDG · IATA 	not regulated III
<ul style="list-style-type: none"> · Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: · IATA · Remarks: 	Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.
<ul style="list-style-type: none"> · UN "Model Regulation": 	not regulated

15 Regulatory information

<ul style="list-style-type: none"> · Safety, health and environmental regulations/legislation specific for the substance or mixture 	
<ul style="list-style-type: none"> · SARA Section 355 (extremely hazardous substances): 	
123-31-9 1,4-dihydroxybenzene	
<ul style="list-style-type: none"> · SARA Section 313 (Specific toxic chemical listings): 	
123-31-9 1,4-dihydroxybenzene	0.025-<0.1%
<ul style="list-style-type: none"> · SARA Section 311/312 (Hazardous Chemical Inventory Reporting) 	
123-31-9 1,4-dihydroxybenzene	A, C 0.025-<0.1%
<ul style="list-style-type: none"> · 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 	
<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act): 	
All ingredients are listed.	
<ul style="list-style-type: none"> · Proposition 65 	
<ul style="list-style-type: none"> · Chemicals known to cause cancer: 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females: 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males: 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity: 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Carcinogenic categories 	
<ul style="list-style-type: none"> · EPA (Environmental Protection Agency) 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · TLV (Threshold Limit Value established by ACGIH) 	
123-31-9 1,4-dihydroxybenzene	A3
<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health) 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · International Regulation Lists 	
<ul style="list-style-type: none"> · Chinese Chemical Inventory of Existing Chemical Substances: 	
All ingredients are listed.	

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· **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:**

123-31-9 1,4-dihydroxybenzene

· **European Pre-registered substances:**

All ingredients are 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** 06/14/2017 / 1

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

US