

## SAFETY DATA SHEET

### Cyberbond™ Z396

Version 1.0

Revision Date 05/02/2019

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Cyberbond™ Z396  
Product code : 100000004850

##### Manufacturer or supplier's details

Company : H.B. Fuller Engineering Adhesives  
Address : 9001 W Fey Drive  
Frankfort, IL, 60423  
Telephone : 1-815-464-5606

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

##### Recommended use of the chemical and restrictions on use

Recommended use : Cyanoacrylate Adhesive  
Restrictions on use : For industrial use only.

#### SECTION 2. HAZARDS IDENTIFICATION


##### Emergency Overview

Appearance	liquid
Color	colorless
Odor	pungent

##### GHS Classification

Skin irritation : Category 2  
Eye irritation : Category 2A  
Skin sensitization : Category 1  
Carcinogenicity : Category 2  
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system)

##### GHS label elements

Hazard pictograms : 

Signal Word : Warning

##### Hazard Statements:

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer.

##### Precautionary Statements:

**Prevention:** P201 Obtain special instructions before use. P202 Do not handle until all safety

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precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

**Storage:** P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

**Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential Health Effects

#### Carcinogenicity:

<b>IARC</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
<b>NTP</b>	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
ethyl 2-cyanoacrylate	7085-85-0	90 - 100
hydroquinone	123-31-9	0.1 - 1

### SECTION 4. FIRST AID MEASURES

General advice	: Show this material safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. If not breathing, give artificial respiration. Keep patient warm and at rest. Consult a physician after significant exposure.
In case of skin contact	: Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids.

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	Seek medical advice.
If swallowed	: If swallowed, call a poison control center or doctor immediately. Do not induce vomiting without medical advice.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: Water spray jet
Hazardous combustion products	: Nitrogen oxides (NOx)
Specific extinguishing methods	:
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.
Environmental precautions	: Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	: Allow to solidify. Pick up and transfer to properly labeled containers. Ventilate the area.

#### SECTION 7. HANDLING AND STORAGE

Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Wear personal protective equipment. Do not get on skin or clothing. Use only in an area equipped with a safety shower.
Conditions for safe storage	: Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container.
Materials to avoid	: Do not store together with oxidizing and self-igniting products.

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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethyl 2-cyanoacrylate	7085-85-0	PEL	0.2 ppm 1.02 mg/m3	CAL PEL
		TWA	0.2 ppm	ACGIH
		STEL	1 ppm	ACGIH
hydroquinone	123-31-9	TWA	1 mg/m3	ACGIH
		TWA	2 mg/m3	OSHA Z-1
		TWA	2 mg/m3	OSHA P0

##### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapor type

##### Hand protection

Material : Nitrile rubber

Remarks : Do not wear cotton or natural fiber gloves.

##### Eye protection

: Tightly fitting safety goggles  
Ensure that eyewash stations and safety showers are close to the workstation location.

##### Skin and body protection

: Long sleeved clothing  
Preventive skin protection

##### Protective measures

: Avoid contact with skin.

##### Hygiene measures

: Avoid contact with skin, eyes and clothing.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid  
 Color : colorless  
 Odor : pungent  
 Odor Threshold : No data available  
 Melting point/freezing point : not determined  
 Boiling point/boiling range : not determined  
 Evaporation rate : not determined

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Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit not determined
Lower explosion limit	: Lower flammability limit not determined
Density	: ca. 1.05 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: not determined
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: not determined
Viscosity	
Viscosity, kinematic	: not determined

#### SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: The product is chemically stable.
Hazardous decomposition products	: Stable under normal conditions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

###### Components:

###### hydroquinone:

Acute oral toxicity : LD50 Oral Rat: 320 mg/kg

Acute dermal toxicity : LD50 Dermal Rat: > 900 mg/kg

##### Skin corrosion/irritation

No data available

##### Serious eye damage/eye irritation

No data available

##### Respiratory or skin sensitization

No data available

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

No data available

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#### Reproductive toxicity

No data available

#### STOT-single exposure

No data available

#### STOT-repeated exposure

No data available

#### Aspiration toxicity

No data available

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components: hydroquinone :

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.044 mg/l  
Exposure time: 96 h  
Test Method: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.29 mg/l  
Exposure time: 48 h  
Test Method: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0.335 mg/l  
Exposure time: 72 h  
Test Type: flow-through test

#### Persistence and degradability

No data available

#### Bioaccumulative potential

#### Mobility in soil

No data available

#### Other adverse effects

No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Do not dispose of together with household waste.  
Do not dispose of waste into sewer.  
To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous

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Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

#### SECTION 14. TRANSPORT INFORMATION

##### Special precautions for user

Not applicable

##### Domestic regulation

###### 49 CFR

UN/ID/NA number : 1993  
Proper shipping name : Combustible liquid, n.o.s.  
(ethyl 2-cyanoacrylate)  
Class : CBL  
Packing group : III  
ERG Code : 128  
Marine pollutant : no

##### International Regulations

###### UNRTDG

Not regulated as a dangerous good

###### IATA-DGR

Not regulated as a dangerous good

###### IMDG-Code

Not regulated as a dangerous good

##### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Skin corrosion or irritation  
Serious eye damage or eye irritation  
Respiratory or skin sensitization  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

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#### SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

hydroquinone

123-31-9

#### US State Regulations

##### California Prop 65

: Please contact Supplier for more information.

#### The ingredients of this product are reported in the following inventories:

**TSCA**

On TSCA Inventory

**DSL**

All components of this product are on the Canadian DSL

**AICS**

On the inventory, or in compliance with the inventory

**ENCS**

On the inventory, or in compliance with the inventory

**KECI**

On the inventory, or in compliance with the inventory

**PICCS**

On the inventory, or in compliance with the inventory

**IECSC**

On the inventory, or in compliance with the inventory

**Inventories Legend** TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

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#### SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com



## SAFETY DATA SHEET

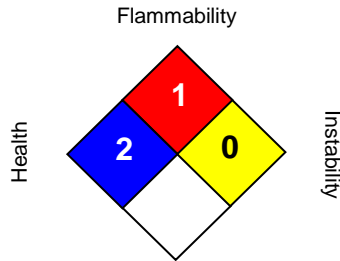
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**Further information**

**NFPA:**



Special hazard.

**HMIS III:**

<b>HEALTH</b>	<b>2*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

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