1. Identification

1.1. Product identifier
Product Identity: Gel Bond Max
Alternate Names: Cyanoacrylate Adhesive

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use: See Technical Data Sheet.
Application Method: See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name: Adhesive R & D Inc.
4603 Anderson Drive
Eau Claire, WI. 54703
Contact Telephone No.: 1 (715) 832-4557
Customer Service: Adhesive R&D Inc.

2. Hazard(s) identification

2.1. Classification of the substance or mixture
Combustible Liquid; H227: Combustible Liquid.
Skin Irrit. 2; H315: Causes skin irritation.
Eye Irrit. 2; H319: Causes serious eye irritation.
Carc. 2; H351: Suspected of causing cancer.
STOT SE 3; H335: May cause respiratory irritation.

2.2. Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Warning
H227 Combustible liquid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

[Prevention]:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P302+352 IF ON SKIN: Wash with plenty of soap and water.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+313 IF exposed or concerned: Get medical advice / attention.
P321 Specific treatment (see information on this label).
P332+313 If skin irritation occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362 Take off contaminated clothing and wash before reuse.

[Storage]:
P403+235 Store in a well ventilated place. Keep cool.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.
3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl cyanoacrylate</td>
<td>50 - 75</td>
<td>Eye Irrit. 2;H319</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0007085-85-0</td>
<td></td>
<td>STOT SE 3;H335</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Irrit. 2;H315</td>
<td></td>
</tr>
<tr>
<td>Methyl methacrylate polymer</td>
<td>10 - 25</td>
<td>Not Classified</td>
<td>[1]</td>
</tr>
<tr>
<td>CAS Number: 0009011-14-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>0.10 - 1.0</td>
<td>Carc. 2;H351</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0000123-31-9</td>
<td></td>
<td>Muta. 2;H341</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute tox. 4;H302</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Dam. 1;H318</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Sens. 1;H317</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Acute 1;H400</td>
<td></td>
</tr>
</tbody>
</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

**General**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes**

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 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 may have been trapped behind the eyelid causing abrasive damage.

**Skin**

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 the mouth. Peal or roll lips apart. Do not pull lips apart with direct opposing force.
Ingestion
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.

4.2. Most important symptoms and effects, both acute and delayed

**Overview**
Skin contact may cause burns. Bonds skin rapidly. Skin and eye irritant. Vapor is irritating to eyes and mucous membranes. When above TLV. Prolonged overexposure to vapors may produce allergic reactions with asthma like symptoms in sensitive individuals. Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.
See section 2 for further details.

Eyes
Causes serious eye irritation.

Skin
Causes skin irritation.

### 5. Fire-fighting measures

5.1. Extinguishing media
Carbon Dioxide, Dry Chemicals, Foam

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Irritating organic vapors may be released. Use of a SCBA is recommended.
Keep away from heat / sparks / open flames / hot surfaces - No smoking.
Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters
A self-contained breathing apparatus is required.
ERG Guide No. 128

### 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions
Do not allow spills to enter drains or waterways.
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up
DO NOT use cloth materials. In case of a leak or spill, flood area with water to polymerize the material. Soak up with inert absorbent. Ventilate area. Prevent product from entering drains.
7. Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes. Avoid breathing vapors.
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities
Handle containers carefully to prevent damage and spillage.
Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.
Incompatible materials: Polymerized by water, alcohol, amines and alkalis.
Store below 72 F.
See section 2 for further details. - [Storage]:

7.3. Specific end use(s)
No data available.

8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000123-31-9</td>
<td>Hydroquinone</td>
<td>OSHA</td>
<td>TWA 2 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 1 mg/m3, Revised 2008,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>C 2 mg/m3 [15-minute]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0007085-85-0</td>
<td>Ethyl cyanoacrylate</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 0.2 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>0009011-14-7</td>
<td>Methyl methacrylate polymer</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>
8.2. Exposure controls

**Respiratory**
If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes**
Protective safety glasses recommended

**Skin**
Use polyethylene gloves and aprons. DO NOT use cotton/cloth gloves.

**Engineering Controls**
Positive draft exhaust ventilation should be provided to maintain vapor concentration levels below TLV. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Other Work Practices**
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Clear Gel</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Sharp</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Melting point / freezing point</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>Greater than 300 F</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>160 - 200 F (TCC)</td>
</tr>
<tr>
<td><strong>Evaporation rate (Ether = 1)</strong></td>
<td>Not Measured</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not Applicable</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td><strong>Lower Explosive Limit</strong>: Not Measured</td>
</tr>
<tr>
<td><strong>Vapor pressure (Pa)</strong></td>
<td>Not Measured</td>
</tr>
</tbody>
</table>
Vapor Density: Not Measured
Specific Gravity: 1.1
Solubility in Water: Polymerized by water
Partition coefficient n-octanol/water (Log Kow): Not Measured
Auto-ignition temperature: Not Measured
Decomposition temperature: Not Measured
Viscosity (cSt): Not Measured

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No data available.

10.4. Conditions to avoid
No data available.

10.5. Incompatible materials
Polymerized by water, alcohol, amines and alkalis.

10.6. Hazardous decomposition products
Irritating organic vapors may be released. Use of a SCBA is recommended.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl cyanoacrylate - (7085-85-0)</td>
<td>4,500.00, Rat - Category: 5</td>
<td>2,000.10, Rabbit - Category: 5</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Methyl methacrylate polymer - (9011-14-7)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Hydroquinone - (123-31-9)</td>
<td>320.00, Rat - Category: 4</td>
<td>4,800.00, Rat - Category: 5</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

### Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>2</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### 12. Ecological information

#### 12.1. Toxicity

Toxic to aquatic life

**Aquatic Ecotoxicity**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl cyanoacrylate - (7085-85-0)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Methyl methacrylate polymer - (9011-14-7)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Hydroquinone - (123-31-9)</td>
<td>0.044, Oncorhynchus mykiss</td>
<td>0.13, Daphnia magna</td>
<td>0.335 (72 hr), Pseudokirchneriella subcapitata</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.
12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

<table>
<thead>
<tr>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>NA1993</td>
<td>UN3334</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Combustible liquid, n.o.s.,</td>
<td>Aviation regulated liquids N.O.S.</td>
</tr>
<tr>
<td></td>
<td>(Cyanoacrylate ester)</td>
<td>(Cyanoacrylate ester)</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: Combustible</td>
<td>Air Class: 9</td>
</tr>
<tr>
<td></td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EXCEPTIONS: (Not more than 500ml). Unrestricted</td>
</tr>
</tbody>
</table>

14.5. Environmental hazards
IMDG Marine Pollutant: No

14.6. Special precautions for user
No further information

Please note that Cyanoacrylates are not restricted for domestic ground transportation in non bulk containers (The DOT defines a bulk container as a “Package” containing more than 450 liters. The “Package” is the individual bottle, tube or drum, not a carton containing many bottles.

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification B3  D2A
US EPA Tier II Hazards

Fire: Yes
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:
- Hydroquinone

EPCRA 313 Toxic Chemicals:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
- Ethyl cyanoacrylate

Pennsylvania RTK Substances (>1%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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End of Document