1 Identification

· Product identifier
  · Trade name: 2077
  · Application of the substance / the mixture: Cyanoacrylate Adhesive

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Cyberbond LLC
    401 North Raddant Road
    Batavia, IL 60510
    USA
    sales@cyberbond1.com
    630-761-8900
  · Information department: Product safety department
  · Emergency telephone number:
    International: 1-(352)-323-3500
    US & Canada: 1-(800)-535-5053

2 Hazard(s) identification

· Classification of the substance or mixture
  
  GHS07
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  STOT SE 3 H335 May cause respiratory irritation.
  H227 Combustible liquid.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  
  Irritant
  Irritating to eyes, respiratory system and skin.

· Information concerning particular hazards for human and environment:
  The product has to be labeled due to the calculation procedure of international guidelines.

· Classification system:
  The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· 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

(Contd. on page 2)
Trade name: 2077

Hazard statements
- Combustible liquid.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.

Precautionary statements
- Keep away from flames and hot surfaces. – No smoking.
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wear protective gloves / eye protection / face protection.
- Wear protective gloves.
- Wear eye protection / face protection.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see on this label).
- If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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.
- In case of fire: Use for extinction: CO2, powder or water spray.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients
- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7085-85-0 ethyl 2-cyanoacrylate</td>
<td>50-100%</td>
</tr>
<tr>
<td>123-31-9 1,4-dihydroxybenzene</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

4 First-aid measures
- Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Call a doctor immediately.

Information for doctor:
- Most important symptoms and effects, both acute and delayed: Breathing difficulty
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures
- Extinguishing media
  - Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - For safety reasons unsuitable extinguishing agents: Water with full jet
  - Special hazards arising from the substance or mixture: Nitrogen oxides (NOx)

Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**: Ensure adequate ventilation.
- **Environmental precautions**: Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up**:
  - Allow to solidify. Pick up mechanically.
  - Ensure adequate ventilation.
  - Do not use cotton or natural fiber cloths for clean up.

**Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- **Handling**:
  - **Precautions for safe handling**
    - Store in cool, dry place in tightly closed receptacles.
    - Keep away from heat and direct sunlight.
    - Ensure good ventilation/exhaustion at the workplace.
  - **Information about protection against explosions and fires**: No special measures required.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage**:
    - **Requirements to be met by storerooms and receptacles**:
      - Store in a cool location.
      - Store only in the original receptacle.
    - **Information about storage in one common storage facility**: Store away from oxidizing agents.
    - **Further information about storage conditions**: Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical systems**: No further data; see item 7.

- **Control parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>Limit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>7085-85-0 ethyl 2-cyanoacrylate</td>
<td>TLV Long-term value: 1 mg/m³, 0.2 ppm</td>
</tr>
</tbody>
</table>

- **Additional information**: The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment**:
  - **General protective and hygienic measures**:
    - The usual precautionary measures for handling chemicals should be followed.
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Avoid contact with the eyes and skin.
  - **Breathing equipment**: Not necessary if room is well-ventilated.
  - **Protection of hands**:
    - **Protective gloves**
      - Impervious gloves
      - 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**: Nitrile rubber, NBR
      - **Penetration time of glove material**
        - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Trade name: 2077

· Not suitable are gloves made of the following materials:
  Cotton or natural fibers
  PVC gloves
· Eye protection:
  Safety glasses
  Tightly sealed goggles
· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
  Form:
  Color:
  Odor:
  Odour threshold:
  pH-value:
· Change in condition
  Melting point/Melting range:
  Boiling point/Boiling range:
· Flash point:
· Flammability (solid, gaseous):
· Ignition temperature:
  Decomposition temperature:
· Auto igniting:
· Danger of explosion:
· Explosion limits:
  Lower:
  Upper:
· Vapor pressure at 20 °C (68 °F):
· Density at 20 °C (68 °F):
· Relative density
· Vapour density
· Evaporation rate
· Solubility in / Miscibility with
  Water:
· Partition coefficient (n-octanol/water):
· Viscosity:
  Dynamic:
  Kinematic:
· Solvent content:
  Organic solvents:
  Solids content:
· Other information
  No further relevant information available.
10 Stability and reactivity

- Reactivity
  - Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions
    Reacts with alcohols, amines, aqueous acids and alkalis.
    Reacts with water and acids.
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
  - Primary irritant effect:
    - on the skin: Irritant to skin and mucous membranes.
    - on the eye: Irritating effect.
  - Sensitization: Sensitization possible through skin contact.
  - 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) | 123-31-9 | 1,4-dihydroxybenzene |
| 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: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
  - Additional ecological information:
  - 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: Not applicable. |
| vPvB: Not applicable. |

- 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: Disposal must be made according to official regulations.
14 Transport information

- UN-Number
  - DOT NA1993
  - ADN, IMDG, IATA Void

- DOT
  - UN proper shipping name
  - DOT
  - ADN, IMDG, IATA
  - IMDG, IATA Void

- Transport hazard class(es)
  - DOT, ADN, IMDG, IATA Void

- Class
  - DOT
  - IMDG, IATA Void

- Packing group
  - DOT III
  - IMDG, IATA Void

- Environmental hazards:
  - Marine pollutant: No
  - Special precautions for user: Not applicable.
  - Poison inhalation hazard: No

- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

- Transport/Additional information:
  - DOT
  - Quantity limitations
    - On passenger aircraft/rail: 60 L
    - On cargo aircraft only: 220 L

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      - 123-31-9 1,4-dihydroxybenzene
    - Section 313 (Specific toxic chemical listings):
      - 123-31-9 1,4-dihydroxybenzene
    - TSCA (Toxic Substances Control Act):
      - All ingredients are 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.
      - 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)
        - 109-63-7 diethyl ether–boron trifluoride
          - I (oral)
      - TLV (Threshold Limit Value established by ACGIH)
        - 123-31-9 1,4-dihydroxybenzene
          - A3
NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

Signal word: Warning

Hazard-determining components of labeling:
- ethyl 2-cyanoacrylate

Hazard statements
- Combustible liquid.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.

Precautionary statements
- Keep away from flames and hot surfaces. – No smoking.
- Avoid inhaling dust/fume/gas/mist/vapors/spray.
- Wear protective gloves / eye protection / face protection.
- Wash thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see on this label).
- If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- If skin irritation occurs: Get medical advice/attention.
- In case of fire: Use for extinction: CO2, powder or water spray.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

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 SDS: Product Safety Department
Contact: Cyberbond Regulatory Department
Date of preparation / last revision: 06/02/2015 / 1

Abbreviations and acronyms:
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- Flammable liquids, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3