1 Identification

· Product identifier
  · Trade name: 1603
  · Application of the substance / the mixture: Adhesives

· 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](image)
  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
  ![X](image)
  Irritant

  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](image)

· Signal word: Warning

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

(Contd. on page 2)
**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.

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

**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>

**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.

**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.

**Specific end use(s)**: No further relevant information available.

8 Exposure controls/personal protection

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

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7085-85-0 ethyl 2-cyanoacrylate</td>
</tr>
<tr>
<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: 1603

· 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
    · Appearance:
      Form: Liquid
      Color: Colorless
    · Odor: Characteristic
    · Odour threshold: Not determined.
    · pH-value: Not determined.
  · Change in condition
    · Melting point/Melting range: Undetermined.
    · Boiling point/Boiling range: > 150 °C (> 302 °F)
  · Flash point: 87 °C (189 °F)
  · Flammability (solid, gaseous): Not applicable.
  · Ignition temperature:
    · 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 at 20 °C (68 °F): 0.3 hPa
  · Density at 20 °C (68 °F): 1.05 g/cm³ (8.762 lbs/gal)
  · Relative density: Not determined.
  · Vapour 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 determined.
    · Kinematic: Not determined.
  · Solvent content:
    · Organic solvents: 0.0 %
  · Solids content: 100.0 %
  · 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 3
  - 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 proper shipping name
  - DOT COMBUSTIBLE LIQUID, N.O.S
  - ADN, IMDG, IATA Void

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

- Class
  - DOT Void
  - ADN, IMDG, IATA

- Packing group
  - DOT III
  - ADN, IMDG, IATA

- Environmental hazards:
  - Marine pollutant: No
  - 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:
  - 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.
40.1.3 · 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:
etyl 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 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 extinguition: 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.

· 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