



According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : G-Bond Super Glue

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Ethyl Cyanoacrylate Adhesive

1.3. Supplier

National Adhesive Inc
8280 Willow Oaks Corporate Drive, Suite 600
Fairfax, VA, 22031, USA
Tel: +1 (855) 674-4583
Email: gluenagel@nationaladhesive.com

1.4. Emergency telephone number

Emergency number : INFOTRAC (North America): 1-800-535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flam. Liq. 4	Combustible liquid
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Muta. 2	Suspected of causing genetic defects.
Carc. 2	Suspected of causing cancer.
STOT SE 3	May cause respiratory irritation.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning





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Hazard statements (GHS US)	: Combustible liquid Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing genetic defects. Suspected of causing cancer.
Precautionary statements (GHS US)	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Call a poison center or doctor if you feel unwell. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable





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3.2. Mixtures

Name	Product identifier	%
Ethyl cyanoacrylate	CAS-No.: 7085-85-0	≥99
1,4-Benzenediol	CAS-No.: 123-31-9	≤ 1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of water. Do not pull bonded skin apart. Any bonded skin should be gently peeled apart, preferably after soaking in warm, soapy water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If the eyelids are bonded closed, release eyelashes by covering with a pad soaked with warm water. Do not force the eye open. Get prompt medical attention, in case solid particles of cured cyanoacrylate trapped behind the eye cause any abrasive damage. Keep eye covered with wet pad until debonding is complete, usually 1-3 days. (Cyanoacrylate will bond to eye protein, causing a lachrymatory effect that aids debonding).
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Ensure that breathing passages are not obstructed. The product will polymerize immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of causing cancer. Suspected of causing genetic defects.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water spray.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid. Products of combustion may include, and are not limited to: oxides of carbon. Nitrogen oxides. Irritating fumes.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Remove all sources of ignition. Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up : Do not use cloths for mopping up. Flood with water to complete polymerization. (~10:1, adhesive: water) Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".





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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with eyes, skin and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. When using do not eat, drink or smoke. Keep away from sources of ignition - No smoking. Ambient humidity should be >35% to minimise discomfort. Use only outdoors or in a well-ventilated area. Handle and open container with care.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of the reach of children. Store locked up. Keep in fireproof place. Keep away from heat, sparks and flame. Sources of ignition. Direct sunlight. Keep cool. Keep away from clothing and other combustible materials. Keep away from food, drink and animal feedingstuffs. Keep away from oxidizing agents. Acids. Alkalis. Can be stored in opaque polyethylene. Store tightly closed in a dry, cool and well-ventilated place.
Storage temperature	: 2 – 8 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

G-Bond Super Glue

No additional information available

Ethyl cyanoacrylate (7085-85-0)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA [ppm]	0.2 ppm (Cyanoacrylates)
ACGIH OEL STEL [ppm]	1 ppm (Cyanoacrylates)
ACGIH chemical category	dermal sensitizer

1,4-Benzenediol (123-31-9)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA	1 mg/m ³
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, dermal sensitizer

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA [1]	2 mg/m ³
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1,4-Benzenediol (123-31-9)

USA - IDLH - Occupational Exposure Limits

IDLH : 50 mg/m³

USA - NIOSH - Occupational Exposure Limits

NIOSH REL C : 2 mg/m³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
 Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration. Wear polythene, polypropylene or Viton gloves. Latex (natural rubber), nylon or PVC gloves only provide protection for a few seconds.

Eye protection:

Wear eye/face protection

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
 Appearance : Clear.
 Colour : Colourless
 Odour : Sharp. Pungent
 Odour threshold : No data available
 pH : 6 – 7
 Melting point : ≈ -30 °C





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Freezing point	: No data available
Boiling point	: > 150 °C (~55°C at 0.045mmHg)
Flash point	: > 85 °C (C.C.)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Combustible liquid.
Vapour pressure	: ≈ 0.04 mm Hg [25 °C]
Relative vapour density at 20 °C	: No data available
Relative density	: 1.05 – 1.12 Various depending on grade
Solubility	: Miscible in some organic solvents (acetone, MEK) Water: Insoluble. Polymerizes rapidly with water.
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Various from 3 cP to Gel (50,000 to 90,000 cP)
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. Polymerisation is highly exothermic and may produce sufficient heat to cause thermal decomposition and/or rupture the container.

10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Incompatible materials. Sources of ignition. Direct sunlight. Moisture.

10.5. Incompatible materials

Water. Strong oxidizing agents. Amines. Alkalis. Alcohol. free-radical initiators. Will polymerise rapidly in contact with these agents.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Nitrogen oxides. May release flammable gases. Irritating fumes.





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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
 Acute toxicity (dermal) : Not classified.
 Acute toxicity (inhalation) : Not classified.

G-Bond Super Glue

LD50 oral rat	> 3000 mg/kg (estimated); Product is almost impossible to swallow, due to polymerisation in the mouth
LD50 dermal rabbit	> 3000 mg/kg (estimated); Expected to be low due to rapid polymerisation in contact with skin
Unknown acute toxicity (GHS US)	1% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Ethyl cyanoacrylate (7085-85-0)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	< 21.1 mg/l (Exposure time: 1 h)

1,4-Benzenediol (123-31-9)

LD50 oral rat	298 mg/kg
LD50 dermal rabbit	74800 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: 6 – 7
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6 – 7
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Suspected of causing cancer.

1,4-Benzenediol (123-31-9)

IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity
Reproductive toxicity	: Not classified.
STOT-single exposure	: May cause respiratory irritation.

Ethyl cyanoacrylate (7085-85-0)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified.





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Aspiration hazard	: Not classified.
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Suspected of causing cancer. Suspected of causing genetic defects.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

1,4-Benzenediol (123-31-9)

LC50 - Fish [1]	0.044 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 - Crustacea [1]	0.29 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	0.044 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [2]	0.061 mg/l Test organisms (species): Daphnia magna

12.2. Persistence and degradability

G-Bond Super Glue

Persistence and degradability : Not established.

12.3. Bioaccumulative potential

G-Bond Super Glue

Bioaccumulative potential : Not established.

1,4-Benzenediol (123-31-9)

BCF - Fish [1]	40
Partition coefficient n-octanol/water	0.5

12.4. Mobility in soil

No additional information available





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12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

DOT NA No : NA1993

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Combustible liquid, n.o.s. (Ethyl cyanoacrylate)

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Combustible liquid

14.4. Packing group

Packing group (DOT) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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

Not applicable





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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

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Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



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