



NATIONAL ADHESIVE DISTRIBUTORS

CK 2000/063562/23 VAT No.: 4370194633

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MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: GLUE DEVIL G-BOND SUPER GLUE
Product: Ethyl Cyanoacrylate Adhesive
Company Name: National Adhesive Distributors (Durban Head Office)

2. COMPOSITION / INFORMATION OF INGREDIENTS

Substance:		%Wt.	CAS No.	EC No.
Ethyl-2-cyanoacrylate	Xi: R36/37/38	99.0-99.9	7085-85-0	230-391-5
Hydroquinone	Xi: R36/37/38	0.1-1.0	123-31-9	

3. HAZARDS IDENTIFICATION

Main Hazards: **DANGER: Cyanoacrylate.** Bonds skin and eyes in seconds. Keep out of reach of children.
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
Do not breathe fumes/vapours.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention.

Eyes: Cyanoacrylates bond eyelids in seconds. Irrigate thoroughly with water for at least 15 minutes. Take care not to wash chemical from one eye to the other. If the eyelid is bonded closed, do not force open. Cover with wet pad soaked in warm water. Get prompt medical



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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).

- Skin:** Do not pull bonded skin apart. Remove contaminated clothing. Wash with soap/cleanser and with plenty of water. Any bonded skin should be gently peeled apart with the aid of a blunt object, preferably after soaking in warm, soapy water. If irritation persists, obtain medical attention. In the case of large spills on skin, superficial burns may occur – treat accordingly.
- Ingestion:** Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth, making it almost impossible to swallow, but beware of possible choking hazard. Saliva will separate the solidified product from the mouth over a period of hours. Seek medical attention.
- Equipment at Work Place:** Eye wash facilities.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishers:** Alcohol resistant foam. Dry powder. Carbon dioxide. Use water spray/fog.
- Unsuitable Extinguishers:** Direct water jets.
- Hazardous Decomposition:** Polymerisation is highly exothermic and may produce sufficient heat to cause thermal decomposition and/or rupture the container. Toxic and irritant fumes are produced in fire (CO, CO₂, nitrogen oxides).
- Special Procedures:** Keep container cooled by spraying with water if exposed to fire. Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Wear eye protection. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

6. ACCIDENTAL RELEASE MEASURES

- Exposure Controls:** Refer to section 8 – Personal Protection. Ventilate area. Evacuate personnel. Use approved self-contained breathing apparatus. Use barriers to prevent unauthorised entry into contaminated areas. Do not allow spill to enter drains and watercourses.



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Personal Protection: Wear suitable respiratory protection for large spillages and in confined spaces, e.g. EN405 FFA2 or EN140 A2. Wear polythene, polypropylene or Viton gloves. Use eye protection such as glasses to BS EN166 Chemical Grade. Wear suitable protective clothing.

Disposal Considerations: Absorb in inert material such as sand or absorbent granules (do not use cloths) or polymerise slowly with water (~10:1, adhesive: water) then scrape up. Dispose in accordance with local regulations.

7. HANDLING AND STORAGE

Handling Requirements: Avoid skin and eye contact. Avoid inhalation of vapour – ensure adequate ventilation and/or use local extraction. Wear polythene, polypropylene or Viton gloves. Latex (natural rubber), nylon or PVC gloves only provide protection for a few seconds. Wear safety glasses. If handling large quantities, wear suitable protective clothing. Ambient Relative Humidity should be >35% to minimise discomfort.

Storage Conditions: Store in cool, dry area. Avoid extremes of temperature. Keep container tightly closed. Refrigerated storage (2-8°C) is recommended for optimum shelf-life. Keep away from high temperatures and sources of ignition. Keep away from oxidizing agents and from strong acids/alkalis. Can be stored in opaque polyethylene.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit: OES for ethyl cyanoacrylate is 0.3ppm = 1.5mg/m³ (STEL 15min. EH40/2002).

Personal Protection: Wear polythene, polypropylene or Viton gloves. Latex (natural rubber), nylon or PVC gloves only provide protection for a few seconds. Wear suitable eye protection such as glasses rated to BS EN166. If handling large quantities, wear suitable protective clothing. Remove contaminated clothing and shoes immediately. Do not wear contaminated clothing. Use in well ventilated areas. Use local exhaust ventilation if exposed for long periods. If excessive inhalation is a poorly ventilated area is likely, then use a respirator with filter type A. Ambient Relative Humidity should be >35% to minimise discomfort.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, almost colourless liquid.

Odour: Sharp, pungent.

pH: ~6-7



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Boiling Point/Range:	>150°C (~55°C at 0.045mmHg)
Melting Point/Range:	~ -30°C
Flash Point:	>85°C (C.C.)
Flammability:	Non-Flammable
Explosive Properties:	None
Oxidising Properties:	None
Vapour Pressure:	~0.04mmHg at 25°C
Relative Density:	Various – from 1.05-1.12 depending on grade.
Solubility in Water:	Insoluble. Polymerises rapidly with water.
Solubility in Solvents:	Miscible in some organic solvents, e.g. acetone, MEK.
Vapour Density:	Not established.
Partition Coefficient,	
Log Pow:	Not established
Viscosity:	Various from 3cPs to Gel (50,000 to 90,000Cps)
Evaporation Rate	
(Bu AC = 1):	Not established

10. STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures.
Conditions to Avoid:	High temperatures, moisture and direct sunlight. Hazardous exothermic polymerisation can occur if exposed to moisture.



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Materials to Avoid: Strong oxidising agents, water, alkalis, amines, alcohols, free-radical initiators. Will polymerise rapidly in contact with these agents.

Hazardous Decomposition Products: Combustion/exothermic polymerisation will generate oxides of carbon, acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity:** Oral – Expected to be very low – LD50 (rat) likely to be >3,000mg/kg.
Product is almost impossible to swallow, due to polymerisation in the mouth.
Inhalation – Expected to be low - see section 8 for OES info.
Skin – Expected to be low due to rapid polymerisation in contact with skin – LD50 (rabbit) estimated to be >3,000mg/kg.
- Corrosivity/Irritation:** Eyes – Causes severe irritation. Conjunctival irritation and temporary corneal injury possible. Profuse eye watering and redness.
Respiratory Tract – Causes irritation – also of mucous membranes, nose and throat. Very high concentrations can cause nose bleeds.
- Sensitisation:** Not classified as sensitising. Prolonged or repeated over-exposure to high concentrations of vapours may lead to sensitising effects in sensitive individuals.
- Repeated-dose Toxicity:** Not expected at recommended OES levels (an NOAEL of 1-2ppm is likely).
- Mutagenicity:** No adverse results reported.
- Carcinogenicity:** No adverse results reported.
- Reproductive Toxicity:** No adverse results reported.

12. ECOLOGICAL INFORMATION

Not classified as Dangerous for the Environment by the Conventional Method as detailed in Schedule 3, Parts I and III of CHIP3 Regulations.

Ecotoxicity: Considered to be very low, due to rapid polymerisation with water.



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- Bio-accumulative Potential:** Expected to be very low.
- Persistence:** Not considered to be inherently bio-degradable.
- Mobility:** Considered to be virtually zero due to rapid polymerisation with water.

13. DISPOSAL CONSIDERATIONS

Do not discharge into drains or watercourses.

Polymerise adhesive by adding slowly to water (~10:1, adhesive: water). Hardened product can be disposed of in land-fill sites by licensed contractors.

Add water to contaminated packaging and then dispose of.

Dispose of product through properly licensed contractors under national and local legislation.

14. TRANSPORT INFORMATION

- UN No:** 3334
- IMDG:** - **Packing Group:** -
- IATA/ICAO:** Class 9 **Packing Group:** -
- ADR/RID:** - **Item:** - **Flash Point:** -
- Transport Name:** Aviation Regulated Liquid, n.o.s. (cyanoacrylate ester)

15. REGULATORY INFORMATION

Hazard Symbols: Irritant



Label Phrases: Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of reach of children.



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Risk & Safety Phrases:	R36/37/38	Irritating to eyes, respiratory system and skin.
	S23	Do not breathe fumes or vapour.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S37	Wear suitable gloves.

Other Relevant Regulations & Publications:

Health & Safety at Work etc. Act 1974.	Control of Substances Hazardous to Health Regulations 1994.
COSHH Essentials.	EH40/series – Occupational Exposure Limits.
Environmental Protection Act 1990.	Special Waste Regulations 1996.
EH72/13 Cyanoacrylate Risk Assessment Document.	

16. OTHER INFORMATION*

The * symbol in this section denote that there has been a change in information from the previous version of this safety data sheet.

Risk phases referred to in section 2:-

R36/37/38 Irritating to eyes, respiratory system and skin.

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