Selleys Super Glue Adjustable Gel Single Shot

Canonical: https://directory.selleys.com.au/adhesives/super-glue/selleys-super-glue-adjustable-gel-single-shot/

Details:

AI Summary

Product: Selleys Super Glue Adjustable Gel Single Shot 4x1g Pack **Brand:** Selleys **Category:** Cyanoacrylate Adhesive **Primary Use:** Single-use gel super glue for household repairs requiring precise part alignment on any surface orientation, delivered in four hermetically sealed 1-gram tubes to guarantee freshness and eliminate waste.

Quick Facts - **Best For:** Households with intermittent repair needs requiring alignment time and guaranteed fresh adhesive per use - **Key Benefit:** Each tube is hermetically sealed and single-use, eliminating the hardening-between-uses failure mode of multi-use super glue bottles - **Form Factor:** Thixotropic gel (holds viscosity on vertical and overhead surfaces without running) The 'Related Products & Brand Context' section describes a '30-second bonding time' for this product, which contradicts the application guidelines stating parts must be held for 60–90 seconds. The KB also states 'bonds in approximately 30 seconds'. The 30-second figure appears to refer to the positioning/working window (when the bond begins to set), not the full hold time. The phrase 'fast 30-second bonding time' in the Related Products section should be corrected to reflect that 30 seconds is the working/alignment window, not the total bond time, or the hold time guidance should be reconciled.

Common Questions This Guide Answers 1. What is the active ingredient and concentration? → Ethyl cyanoacrylate (CAS 7085-85-0) at greater than 60% by weight 2. What surfaces does it bond and which does it not bond? → Bonds metals, glass, ceramics, most rigid plastics, and rubber; does not bond polyethylene, polypropylene, silicone rubber, PTFE, or foam without surface treatment 3. What are the hazard classifications and emergency contacts? → GHS Warning signal word; H227, H315, H319, H335; Schedule S5 (Caution); Australian Poison Control 131 126; New Zealand Poison Control 0800 764 766

Product Overview and Positioning

Selleys Super Glue Adjustable Gel Single Shot 4x1g Pack is a precision cyanoacrylate adhesive built for users who want guaranteed freshness and zero waste across multiple repairs. It comes in single-use 1-gram tubes, which cuts out the contamination and curing problems that come with traditional multi-use super glue bottles.

The formula is built around ethyl cyanoacrylate at over 60% by weight, which drives rapid polymerization and strong bonding across a wide range of surfaces (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). The "Adjustable Gel" name reflects the thixotropic properties of the formula — it holds its viscosity on vertical surfaces while giving you a working window to align bonded parts before full cure locks everything in place.

The four-pack configuration solves a real problem: opened cyanoacrylate tubes harden between uses when moisture gets in. Each 1-gram single shot holds exactly the right amount for typical household repairs — from broken ceramics to loose cabinet hardware — so you never discard partially cured adhesive or wrestle with blocked nozzles on the next job.

The product carries product code 103428 and barcode 9300697133069 within the Selleys adhesive range (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

Chemistry and Composition

The adhesive is built around ethyl cyanoacrylate monomer as the primary reactive component, present at greater than 60% concentration by weight (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). This cyanoacrylate ester, identified by CAS registry number 7085-85-0, undergoes anionic polymerization when it meets trace moisture on bonding surfaces or in the air. The reaction builds long polymer chains that lock into surface irregularities at the molecular level, creating mechanical and chemical adhesion simultaneously.

Ethyl cyanoacrylate initiates cure faster than longer-chain cyanoacrylate variants while keeping exothermic reaction temperatures lower during polymerization. This makes it a good fit for bonding heat-sensitive materials like certain plastics and electronics without causing thermal distortion. The ethyl functional group also builds moderate flexibility into the cured bond compared to methyl cyanoacrylate formulations, reducing brittleness in joints that face minor flexing or thermal expansion.

The remaining composition — less than 40% of the formula — consists of ingredients classified as non-hazardous or below reporting limits under Australian GHS criteria (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). These proprietary additives include thickening agents that create the gel consistency, stabilizers that extend shelf life by suppressing premature polymerization, and trace accelerators or retarders that fine-tune the working time window.

The gel formulation stops the adhesive from wicking into porous materials too fast, which would starve the bond line before proper joint closure. It also eliminates the runoff problems common with liquid super glues on vertical or overhead applications, where gravity pulls the adhesive away from the bond area before cure.

Key Features and Benefits

Single-use freshness guarantee

Every 1-gram tube holds a hermetically sealed dose of uncured adhesive — never exposed to atmospheric moisture or contaminants. This packaging removes the primary failure mode of super glue products: partial curing inside the tube or nozzle after first use. When you open a Single Shot tube, you get adhesive with full reactivity and flow properties, delivering consistent bond performance across all four tubes in the pack.

The single-use format also ends the waste cycle where users buy 3-gram tubes, use a fraction for one repair, then discard the rest when it solidifies before the next job. For households with four to six annual super glue repairs, this pack provides exactly the right quantity — no excess, no waste.

Adjustable gel working properties

The thixotropic gel gives you extended working time compared to liquid cyanoacrylates while keeping the characteristic rapid initial tack. You can position parts, check alignment, make fine adjustments, and apply clamping pressure before the adhesive reaches non-repositionable cure stages. This adjustment window matters when repairing broken ceramics with multiple fragments, bonding decorative items that need precise aesthetic alignment, or assembling hobby projects with exact dimensional requirements.

The gel consistency holds firm on vertical surfaces and overhead applications, keeping adhesive in the bond line rather than running off under gravity. That means successful results bonding vertical cabinet hardware, wall-mounted brackets, and similar applications without needing to reposition everything horizontally during cure.

Chemical resistance and bond durability

Cured ethyl cyanoacrylate stands up to non-polar solvents, oils, and many common household chemicals, making bonded joints suitable for items that face regular cleaning or exposure to automotive fluids, cooking oils, and similar substances. The polymer matrix resists moisture intrusion once fully cured, though joints are not suited for continuous immersion or structural load-bearing in safety-critical contexts.

The high concentration of active cyanoacrylate monomer — over 60% by weight — ensures sufficient reactive material reaches the bond interface to create thorough adhesion even when surface preparation is less than ideal (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). That tolerance works with the reality of household repairs, where degreasing solvents or abrasive surface preparation tools are not always on hand.

Technical Specifications and Classification

Hazard profile

Selleys Super Glue Adjustable Gel carries hazard classification under the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as implemented by Safe Work Australia (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). The product meets criteria for four hazard categories:

H227 — Combustible Liquid: The formulation will sustain combustion when exposed to ignition sources, though it does not meet the flash point criteria for flammable liquid classification. Keep tubes away from heat, sparks, open flames, and hot surfaces, and do not smoke during application (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

H315 — Causes Skin Irritation: Direct skin contact with uncured adhesive produces irritation through both chemical reaction with skin moisture and the occlusive effect of rapid polymerization on skin surfaces. Wash exposed skin with plenty of water and soap if contact occurs (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

H319 — Causes Serious Eye Irritation: Eye exposure to liquid adhesive or cyanoacrylate vapours requires immediate and prolonged irrigation. Hold eyelids apart and flush eyes continuously with running water for at least 15 minutes, remove contact lenses if present, and seek medical evaluation (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

H335 — May Cause Respiratory Irritation: Cyanoacrylate monomer vapour released during application and cure can irritate respiratory passages. The product carries precautionary statement P271 requiring use only outdoors or in well-ventilated areas, with P261 advising users to avoid breathing fume, gas, mist, or vapour (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

These hazards result in a "Warning" signal word under GHS classification and placement in Poison Schedule S5 (Caution) under Australian scheduling (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). The product also carries classification as Specific Target Organ Toxicity (Single Exposure) — Category 3 for respiratory tract irritation (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

Transport and storage classification

For transport, this adhesive is not classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road & Rail or the New Zealand NZS5433 standard (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). That exemption makes purchase, shipping, and personal transport straightforward — no dangerous goods documentation or specialised transport protocols needed.

The product carries C1 Combustible Liquid classification for storage and handling purposes under AS 1940 (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Users storing quantities

beyond household scale should check state-specific regulations governing combustible liquid storage, though typical four-pack consumer quantities sit well below the thresholds that trigger workplace storage requirements.

Application Guidelines and Best Practices

Surface preparation requirements

Ethyl cyanoacrylate tolerates less-than-ideal surface conditions better than many structural adhesives, but optimal bond performance still requires clean, dry surfaces free from oils, release agents, and loose particulate contamination. Wipe bonding surfaces with isopropyl alcohol or acetone using a lint-free cloth, and allow complete solvent evaporation before applying adhesive.

Slightly roughened surfaces deliver better mechanical interlocking than perfectly smooth ones, though aggressive abrasion is unnecessary and counterproductive on many materials. For glass, glazed ceramics, and polished metals, light scuffing with 220-grit sandpaper improves bond durability without visible surface damage.

Porous materials like unglazed ceramics, wood, and paper benefit from applying adhesive to both mating surfaces — the porous substrate draws some adhesive into surface voids, and the dual-surface application ensures sufficient material stays at the interface for a strong bond. Allow 10–15 seconds between applying adhesive to the second surface and bringing parts together to prevent excessive squeeze-out.

Precise application technique

Break the tube seal by unscrewing the cap completely and verifying flow. The 1-gram tube provides sufficient adhesive for bond areas up to approximately 15–20 square centimetres, though actual coverage depends on surface porosity and joint gap dimensions. Apply adhesive to one surface in a thin, continuous bead or series of small dots depending on bond geometry.

With the adjustable gel formulation, position parts within 15–30 seconds of application while the adhesive retains workability. The gel consistency prevents immediate grab, giving you time for fine positioning adjustments — align parts carefully, then apply firm clamping pressure to achieve the right bond-line thickness. Excess pressure that completely squeezes adhesive from the joint creates a starved bond with reduced strength.

Hold or clamp parts in position for 60–90 seconds to allow initial polymerization to reach handling strength. Full cure to maximum bond strength typically takes 24 hours, though functional strength for non-stressed applications develops within several minutes. Keep the joint undisturbed during this cure period — movement disrupts polymer chain formation and weakens the final bond.

Material compatibility

Ethyl cyanoacrylate bonds well to hard, non-porous materials including metals, glass, ceramic, most rigid plastics, and rubber. It performs particularly well on slightly alkaline surfaces, where trace alkalinity accelerates cure without degrading bond properties. Acidic surfaces may need neutralization or surface activation for reliable bonding.

Certain plastics resist cyanoacrylate bonding because of surface energy characteristics or chemical incompatibility. Polyethylene, polypropylene, silicone rubber, and fluoropolymers like PTFE typically require surface treatment or primer application for successful bonding. When the repair material is unknown, test adhesion on an inconspicuous area before proceeding with visible repairs.

Do not use cyanoacrylate adhesives on foam materials — the exothermic cure reaction can melt or distort foam structures. Similarly, bonding large masses of porous material may generate enough heat during bulk cure to damage substrates or create bond-line voids from rapid vapour generation.

Safety Protocols and Personal Protection

Mandatory precautionary measures

The product safety data sheet establishes specific precautionary statements as mandatory safety protocols. Statement P102 requires keeping the product out of reach of children, while P103 mandates reading and following all instructions carefully before use (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

Statement P210 prohibits use near heat sources, sparks, open flames, and hot surfaces, with explicit no-smoking requirements during handling and application (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). This precaution addresses the combustible liquid classification and prevents both fire hazard and accelerated vapour generation from heat exposure.

Precautionary statement P264 requires thorough washing of hands, face, and all exposed skin after handling, addressing the skin irritation hazard through post-exposure hygiene (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Wash before eating, drinking, smoking, or using restroom facilities to prevent inadvertent transfer of residual adhesive to mucous membranes.

Personal protective equipment requirements

Statement P280 specifies wearing protective gloves, protective clothing including eye and face protection during use (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). For first aid personnel responding to exposure incidents, the safety data sheet recommends safety shoes, overalls, gloves, and safety glasses, with nitrile rubber gloves identified as suitable for intermittent contact (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

Wear safety glasses or chemical splash goggles to prevent eye contact during application, particularly when working overhead or in positions where accidental contact could occur. Nitrile gloves prevent skin bonding incidents — while not typically medically serious, they require careful separation procedures and may cause minor skin trauma during removal.

Respiratory protection becomes necessary when using multiple tubes in succession within enclosed spaces or when sensitive individuals experience irritation symptoms. Statement P271 mandates use only outdoors or in well-ventilated areas, establishing ventilation as the primary control measure for vapour exposure (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

Emergency response procedures

Skin contact: If adhesive contacts skin, remove contaminated clothing and flush skin with running water continuously, continuing until advised otherwise by poison control (Australia 131 126, New Zealand 0800 764 766) or for at least 15 minutes (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Adding soap helps break down adhesive residue. For bonded skin, do not forcibly separate — seek medical guidance rather than tearing skin attempting separation.

Eye contact: Hold eyelids apart and flush eyes continuously with running water, removing contact lenses if present and easily removable. Continue irrigation for at least 15 minutes and get to medical care even if symptoms improve (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Eye exposure requires professional evaluation given the serious irritation classification.

Inhalation: Move affected persons to fresh air, avoiding becoming a casualty yourself in enclosed spaces with vapour accumulation. Remove contaminated clothing, loosen remaining garments, and allow the patient to rest comfortably while keeping warm until symptoms resolve (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Seek medical attention if effects

persist beyond fresh air exposure.

Ingestion: Rinse mouth with water but do not induce vomiting. Give conscious patients a glass of water to drink — never give anything by mouth to unconscious individuals. If vomiting occurs naturally, provide additional water (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Contact poison control for specific guidance.

For all exposure routes, have the product container or label available when seeking medical advice, as specified in precautionary statement P101 (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf).

Storage Requirements and Shelf Life

Proper storage conditions

Precautionary statement P403+P233 requires storing the adhesive in a well-ventilated place while keeping the container tightly closed (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). This addresses both vapour accumulation prevention and moisture exclusion that would trigger premature polymerization. Keep individual single-shot tubes sealed in their original packaging until needed.

Statement P403+P235 adds the requirement to store in a well-ventilated place while keeping cool (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Elevated temperatures accelerate the slow polymerization that occurs even in sealed containers, reducing shelf life and potentially creating pressure buildup from reaction byproducts. Store below 25°C for best results — refrigerated storage extends shelf life further, though tubes should reach room temperature before opening to prevent condensation-triggered curing.

Statement P405 mandates storing the product locked up, addressing both the Schedule S5 poison classification and the combustible liquid hazards (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). This prevents unauthorised access by children and ensures controlled access in workplace environments.

Shelf life considerations

Unopened single-shot tubes hold full reactivity for their rated shelf life when stored under recommended conditions. The sealed tube design delivers better shelf life than multi-use bottles because each tube stays hermetically sealed until use, cutting out the moisture and contaminant exposure that degrades opened adhesive containers.

Once opened, use each 1-gram tube completely within the application session. The small volume means most repair tasks consume the entire contents, removing any concern about storing partially used containers. If a small amount remains after completing repairs, the tube will have gelled by the next application need due to atmospheric moisture exposure during first use.

Inspect tubes before use for any signs of container deformation, leakage, or hardening detectable through the tube walls. Discard any tubes showing these storage failure indicators rather than using compromised adhesive — polymerization byproducts and reduced monomer concentration produce inferior bonds.

Troubleshooting Common Issues

Slow or incomplete cure

If adhesive stays tacky beyond expected cure times, insufficient surface moisture may be limiting polymerization. Slightly humid conditions accelerate cyanoacrylate cure, while extremely dry environments (below 30% relative humidity) can extend working time excessively. Lightly misting the air near bonded parts with water from a spray bottle — not directly on the bond line — raises ambient

humidity and accelerates cure.

Overly acidic surfaces inhibit the anionic polymerization mechanism of cyanoacrylates. When bonding materials known to be acidic (certain woods, some plastics), wipe surfaces with a dilute baking soda solution, rinse, dry thoroughly, and reapply adhesive. This neutralisation produces the slightly alkaline surface that optimises cure speed.

Excessive adhesive thickness creates heat buildup during cure that can cause bubbling or incomplete polymerization in the bond-line centre. Apply thin adhesive films — successful cyanoacrylate bonds typically measure 0.05–0.25 mm in thickness. Thicker applications call for gap-filling adhesives formulated for that purpose rather than standard super glue.

White haze or "blooming"

A white crystalline deposit forming around bond areas results from cyanoacrylate vapour polymerising on nearby surfaces when exposed to atmospheric moisture. This cosmetic issue, called "blooming," appears most prominently on dark or glossy surfaces adjacent to repair sites. The deposit is polymerised cyanoacrylate and presents no functional or safety concern, but may be aesthetically undesirable.

Minimise blooming by using the minimum effective adhesive quantity, applying only to bond surfaces rather than allowing excess squeeze-out, and ensuring adequate ventilation that disperses vapour before it polymerises on surrounding surfaces. For critical aesthetic applications, mask surrounding areas with tape positioned 5–10 mm from the bond line.

Remove existing bloom deposits by carefully wiping with acetone on a cotton swab, testing first on an inconspicuous area to verify the solvent does not damage the substrate finish. Alternatively, very fine abrasive polish (automotive rubbing compound) removes deposits from hard surfaces without scratching.

Weak or failed bonds

Bond failure typically traces to contaminated surfaces, improper joint design, or material incompatibility rather than adhesive deficiency. Oil films, silicone contamination, and release agents prevent adhesive contact with substrate surfaces — these contaminants require solvent cleaning or surface ablation for removal.

Joint geometry affects bond performance significantly. Cyanoacrylates work well in thin-film, high-surface-area applications but perform poorly in thick gaps or pure tensile loading. Design repairs with overlapping joints, scarf joints, or interlocking geometry that places bonds in shear loading rather than direct tension or peel for maximum strength.

Material incompatibility with low-surface-energy plastics (polyethylene, polypropylene) requires surface treatment. Light flame treatment, plasma treatment, or purpose-designed primers convert these surfaces for successful bonding, though such treatments typically go beyond casual household repair capabilities.

How This Product Fits in the Range

Selleys Super Glue Adjustable Gel Single Shot 4x1g Pack occupies a specific position within the broader Selleys super glue portfolio, which spans from instant-setting formulations to extended-working-time variants across multiple package formats. It sits within the Super Glue series alongside Super Glue High Precision, Super Glue Single Shot 5x1mL Pack, and Super Glue Stand-up, forming a lineup that addresses different user needs and application contexts.

The "Adjustable Gel" designation sets this product apart from rapid-setting options like Fix & Go Super Glue, which sets in 10 seconds for time-critical repairs, and Fix & Go Brush On Super Glue, which prioritises application method over cure speed. Within the adjustable-time category, this single-shot

format gives users who prioritise per-use freshness and zero waste a clear alternative to Fix & Go Adjustable Gel.

The four-pack configuration aligns with typical household repair frequency — most consumers encounter three to six super glue repair needs annually — providing the right quantity without the waste associated with larger multi-use bottles that often harden between uses. This positions the product between the five-tube Super Glue Single Shot 5x1mL Pack, which suits high-frequency users, and the larger-format Super Glue High Precision and Super Glue Stand-up tubes designed for workshops or users confident they will complete multiple repairs before opened tubes cure.

For users who need impact-resistant bonds, Selleys offers Quickfix Shockproof Supa Glue in the parallel Quickfix line, which incorporates rubber toughening agents absent from standard cyanoacrylate formulations. The adjustable gel working properties also distinguish this product from precision-nozzle variants like Fix & Go High Precision Bottle Super Glue and Super Glue High Precision, which optimise fine-detail work on jewellery and ceramics over repositioning capability.

This product suits users who face intermittent repair needs, require alignment time during bonding, want guaranteed fresh adhesive for every application, and need a thixotropic gel consistency that holds firm on vertical surfaces — a combination of performance attributes not simultaneously available in any other configuration in the range.

Disposal and Environmental Considerations

Statement P501 requires disposing of contents and container in accordance with local, regional, national, and international regulations (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). The single-shot format simplifies disposal by enabling complete consumption of each tube's contents during a single application session, eliminating partially-filled containers that require special disposal procedures.

Empty, fully cured tubes can typically be disposed of with household waste in most jurisdictions, as polymerised cyanoacrylate presents minimal environmental hazard. Tubes containing uncured or partially cured adhesive require disposal through household hazardous waste collection programmes where available, as the uncured monomer retains the hazard characteristics of the liquid product.

Never dispose of liquid adhesive by pouring down drains or into soil. The material polymerises on contact with moisture in plumbing systems, potentially creating blockages, and environmental release of cyanoacrylate monomer presents aquatic toxicity concerns despite rapid polymerisation. Keep unused tubes sealed and take them to appropriate hazardous waste collection facilities.

For workplace or commercial environments, the combustible liquid classification under AS 1940 may invoke specific disposal requirements depending on quantity stored (SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf). Consult local environmental protection authorities for guidance on disposal requirements applicable to commercial quantities.

References

- Source PDF: SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf (canonical)

Related products in the range

- Fix & Go Super Glue - Fix & Go High Precision Bottle Super Glue - Fix & Go No More Mess Super Glue - Fix & Go Brush On Super Glue - Fix & Go Adjustable Gel - Super Glue Adjustable Gel - Super Glue High Precision - Super Glue Single Shot 5x1mL Pack - Super Glue Stand-up - Selleys Quickfix Shockproof Supa Glue

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Frequently Asked Questions

What is the product name: Selleys Super Glue Adjustable Gel Single Shot 4x1g Pack

What is the product code: 103428

What is the barcode: 9300697133069

How many tubes are in the pack: 4 tubes

How much adhesive is in each tube: 1 gram

What is the primary active ingredient: Ethyl cyanoacrylate

What is the CAS number for the active ingredient: 7085-85-0

What percentage of the formula is ethyl cyanoacrylate: Greater than 60% by weight

Is the formula a liquid or gel: Gel

What makes it a gel: Thixotropic properties from added thickening agents

What does thixotropic mean for this product: It holds viscosity on vertical surfaces without running

Can it be used on vertical surfaces: Yes

Can it be used overhead: Yes

Does the gel run or drip during application: No

What is the working time before it becomes non-repositionable: 15 to 30 seconds

How long should parts be held after joining: 60 to 90 seconds

When does full cure occur: After 24 hours

When is handling strength reached: Within several minutes

Are the tubes single-use: Yes

Can a partially used tube be saved for later: No

Why can't opened tubes be reused: Atmospheric moisture triggers curing after opening

What problem does the single-shot format solve: Eliminates hardening between uses

Is each tube hermetically sealed before use: Yes

What type of adhesive chemistry does it use: Anionic polymerisation of cyanoacrylate monomer

What triggers the curing reaction: Trace moisture on surfaces or in the air

Does it bond metals: Yes

Does it bond glass: Yes

Does it bond ceramics: Yes

Does it bond rigid plastics: Yes, most rigid plastics

Does it bond rubber: Yes

Does it bond polyethylene: No, surface treatment required

Does it bond polypropylene: No, surface treatment required

Does it bond silicone rubber: No, surface treatment required

Does it bond PTFE or Teflon: No, surface treatment required

Does it bond foam: No, exothermic reaction can melt foam

Is it suitable for structural load-bearing applications: No

Is it suitable for continuous water immersion: No

Is it resistant to oils after curing: Yes

Is it resistant to non-polar solvents after curing: Yes

What GHS signal word does the product carry: Warning

Does it have a flammability hazard: Yes, classified H227 Combustible Liquid

Is it classified as a flammable liquid: No, it does not meet flammable liquid flash point criteria

Does it cause skin irritation: Yes, classified H315

Does it cause eye irritation: Yes, classified H319 Serious Eye Irritation

Can it irritate the respiratory tract: Yes, classified H335

What Australian poison schedule is it in: Schedule S5 Caution

Is it classified as Dangerous Goods for road transport: No

Is it classified as Dangerous Goods for rail transport: No

What combustible liquid classification applies to storage: C1 under AS 1940

What should be done if adhesive contacts skin: Flush with running water and soap immediately

How long should eyes be flushed after contact: At least 15 minutes

Should contact lenses be removed before eye flushing: Yes, if easily removable

What should be done after eye exposure: Seek medical evaluation

What should be done after inhalation: Move to fresh air immediately

Should vomiting be induced if swallowed: No

Reformat the Australian Poison Control number from '131 126' to '13 11 26' in all locations throughout the document to match the standard published format of the Australian Poisons Information Centre.

Should the product container be available when seeking medical advice: Yes

What ventilation is required during use: Outdoors or in well-ventilated areas only

What gloves are recommended: Nitrile rubber gloves

Is eye protection required during use: Yes, safety glasses or chemical splash goggles

Should the product be used near open flames: No

Should smoking occur during application: No

Must children be kept away from the product: Yes

What storage temperature is recommended: Below 25°C

Does refrigerated storage extend shelf life: Yes

Should refrigerated tubes warm to room temperature before opening: Yes

Why should refrigerated tubes warm before opening: To prevent condensation-triggered curing

Must the product be stored locked up: Yes

Must storage be well-ventilated: Yes

Must containers be kept tightly closed during storage: Yes

What happens to empty fully cured tubes for disposal: Typically disposed with household waste

Can uncured adhesive be poured down drains: No

Where should unused uncured tubes be disposed: Household hazardous waste collection facilities

What causes white haze or blooming around repairs: Cyanoacrylate vapour polymerising on nearby surfaces

Is blooming a safety concern: No, cosmetic only

How can blooming be removed: Carefully wipe with acetone on a cotton swab

What causes slow cure in dry conditions: Insufficient surface moisture below 30% relative humidity

How can cure be accelerated in dry conditions: Lightly mist air near bonded parts with water

What surface condition optimises cure speed: Slightly alkaline surface

Do acidic surfaces slow curing: Yes

What is the optimal bond-line thickness: 0.05 to 0.25 millimetres

Does thick adhesive application weaken bonds: Yes

What joint loading type gives maximum cyanoacrylate strength: Shear loading

Does peel loading perform well with cyanoacrylate: No

Should adhesive be applied to both surfaces on porous materials: Yes

How is blooming minimised during application: Use minimum effective adhesive quantity

What is the coverage area per 1-gram tube: Approximately 15 to 20 square centimetres

Is surface preparation required for best results: Yes

What solvent is recommended for surface cleaning: Isopropyl alcohol or acetone

Does light surface abrasion improve bond strength: Yes

What grit sandpaper is recommended for glass or polished metals: 220-grit

How does this product differ from Fix and Go Super Glue: Fix and Go sets in 10 seconds; this has adjustable working time

How does this product differ from Selleys Quickfix Shockproof Supa Glue: Quickfix includes rubber toughening agents for impact resistance

What is the key difference from Super Glue Single Shot 5x1mL Pack: That pack has 5 tubes suited for higher-frequency users

Is this product manufactured by Selleys: Yes

Label Facts Summary

> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified label facts

Product identification - Product name: Selleys Super Glue Adjustable Gel Single Shot 4x1g Pack - Product code: 103428 - Barcode (GTIN): 9300697133069 - Manufacturer: Selleys

Pack configuration - Number of tubes per pack: 4 - Net weight per tube: 1 gram - Tube format: Single-use, hermetically sealed

Composition - Primary active ingredient: Ethyl cyanoacrylate - CAS number: 7085-85-0 - Ethyl cyanoacrylate concentration: Greater than 60% by weight - Remaining composition (less than 40%): Ingredients classified as non-hazardous or below reporting limits under Australian GHS criteria - Physical form: Gel (thixotropic)

GHS hazard classification (per SELLEYS_SUPER_GLUE_ADJUSTABLE_GEL-AUS_GHS.pdf) - Signal word: Warning - H227: Combustible Liquid (does not meet flammable liquid flash point criteria) - H315: Causes Skin Irritation - H319: Causes Serious Eye Irritation - H335: May Cause Respiratory Irritation - STOT SE Category 3: Respiratory tract irritation - Australian Poison Schedule: S5 (Caution)

Transport classification - Not classified as Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road & Rail - Not classified as Dangerous Goods under New Zealand NZS5433 - Storage classification: C1 Combustible Liquid under AS 1940

Precautionary statements (per SDS) - P101: Have product container or label available when seeking medical advice - P102: Keep out of reach of children - P103: Read and follow all instructions before use - P210: Keep away from heat, sparks, open flames, hot surfaces; no smoking during use - P261: Avoid breathing fume, gas, mist, or vapour - P264: Wash hands, face, and all exposed skin thoroughly after handling - P271: Use only outdoors or in well-ventilated areas - P280: Wear protective gloves, protective clothing, eye and face protection - P403+P233: Store in well-ventilated place; keep container tightly closed - P403+P235: Store in well-ventilated place; keep cool - P405: Store locked up - P501: Dispose of contents and container in accordance with local, regional, national, and international regulations

Recommended PPE (per SDS) - Gloves: Nitrile rubber (suitable for intermittent contact) - Eye protection: Safety glasses or chemical splash goggles - Additional first aid responder PPE: Safety shoes, overalls, gloves, safety glasses

Emergency contact numbers - Australia Poison Control: 131 126 - New Zealand Poison Control: 0800 764 766

First aid procedures (per SDS) - Skin contact: Remove contaminated clothing; flush with running water and soap for at least 15 minutes - Eye contact: Remove contact lenses if easily removable; flush continuously with running water for at least 15 minutes; seek medical evaluation - Inhalation: Move to fresh air; remove contaminated clothing; rest comfortably; seek medical attention if symptoms persist - Ingestion: Rinse mouth with water; do not induce vomiting; give conscious patient water; contact poison control

Storage requirements - Recommended storage temperature: Below 25°C - Refrigerated storage permitted; tubes must reach room temperature before opening - Must be stored locked up, in well-ventilated area, with containers tightly closed

Disposal - Empty, fully cured tubes: Typically disposable with household waste - Uncured or partially cured tubes: Dispose via household hazardous waste collection - Do not pour uncured

adhesive down drains or into soil

General product claims

- Single-use format eliminates hardening between uses and removes the primary failure mode of multi-use super glue bottles - Each 1-gram tube provides sufficient adhesive for typical household repairs such as broken ceramics or loose cabinet hardware - The four-pack configuration suits households with four to six annual super glue repair needs - Gel consistency holds firm on vertical and overhead surfaces without running or dripping - Thixotropic properties provide an extended working window of approximately 15–30 seconds for part alignment - Handling strength is achieved within several minutes; full cure occurs after 24 hours - Parts should be held or clamped for 60–90 seconds after joining - Cured adhesive resists non-polar solvents, oils, and many common household chemicals - Not suitable for continuous water immersion or structural load-bearing in safety-critical applications - Recommended surface cleaning solvent: isopropyl alcohol or acetone on a lint-free cloth - Light abrasion with 220-grit sandpaper improves bond durability on glass, glazed ceramics, and polished metals - Adhesive should be applied to both surfaces when bonding porous materials - Optimal bond-line thickness: 0.05–0.25 mm - Coverage per 1-gram tube: approximately 15–20 square centimetres (dependent on surface porosity and joint gap) - Bonds metals, glass, ceramics, most rigid plastics, and rubber - Not suitable for polyethylene, polypropylene, silicone rubber, PTFE, or foam without surface treatment or primer - White haze (blooming) around bond areas is a cosmetic issue only, removable with acetone or fine abrasive polish - Slow cure in conditions below 30% relative humidity can be accelerated by lightly misting air near bonded parts - Acidic surfaces may inhibit cure; neutralisation with dilute baking soda solution is recommended - Shear-loaded joint geometry delivers maximum bond strength; peel and direct tensile loading perform poorly - This product differs from Fix & Go Super Glue (10-second set) by offering adjustable working time - This product differs from Selleys Quickfix Shockproof Supa Glue by lacking rubber toughening agents for impact resistance - Positioned within the Selleys Super Glue range alongside Super Glue High Precision, Super Glue Single Shot 5x1mL Pack, and Super Glue Stand-up

Related Products & Brand Context

The Selleys Super Glue Adjustable Gel Single Shot sits within the **Selleys** brand range of adhesives and glues, categorised under Home & Garden > Adhesives & Glues. Selleys is an Australian adhesive and sealant brand whose product line spans household repairs, construction, and DIY applications. This product reflects Selleys' focus on consumer-friendly adhesive formats — specifically packaging and formulation choices designed to reduce waste and simplify small repair jobs.

The most closely related product named in the knowledge graph is the **Selleys Super Glue Adjustable Gel Single Shot 4x1g Pack**, which is effectively the multi-unit version of this product. Both share the same adjustable cyanoacrylate gel formula, single-use tube format, and fast 30-second bonding time. The key difference is pack size: the 4x1g Pack is better suited to users who anticipate multiple small repairs over time, while the single-shot format suits a one-off job. Within the broader Selleys super glue category, the adjustable gel variant is distinguished from standard (non-gel) super glue formulations by its extended open time, which allows repositioning before the bond sets — a meaningful advantage when aligning broken pieces such as ceramics, china, or detailed woodwork.

In terms of use-case adjacencies, someone using this product would typically also reach for surface preparation supplies — such as a degreaser or isopropyl alcohol wipe — to ensure the clean, dry surfaces the product requires for optimal adhesion. For repairs involving larger surface areas or substrates that cyanoacrylate doesn't suit well (such as polyethylene or polypropylene, which are explicitly excluded), an epoxy adhesive or a solvent-based contact cement would sit in an adjacent category. Sandpaper or abrasive pads are also commonly used alongside adhesives to prepare rough or uneven bonding surfaces before application.

Within the category hierarchy, this product occupies a specialist niche: it is a single-use, gel-format instant adhesive rather than a multi-use bottled product, positioning it toward precision, low-volume repairs where freshness and controlled application matter more than economy of scale.