

Material Safety Data Sheet

Infosafe No. 1LO0Z Issue Date: April 2000 RE-ISSUED by LOCTITE
Product Name: **LOCTITE 454 SUPERBONDER PRISM GEL ADHESIVE SGX3 SUPER GLUE GEL**

Classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name

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Other Information

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IDENTIFICATION

Product Name

LOCTITE 454 SUPERBONDER PRISM GEL ADHESIVE SGX3 SUPER GLUE GEL

Proper Shipping Name

None Allocated

Other Names

Name

Mancode

Product Name : LOCTITE 454 SUPERBONDER PRISM GEL ADHESIVE SGX3 SUPER GLUE GEL

Xtra Super Glue Gel	SGX3
LOCTITE 454 PRISM GEL	21925 (10gm)
LOCTITE 454 PRISM GEL	45416 20gm)
LOCTITE 454 PRISM GEL	45474 (200gm)
LOCTITE 454 PRISM GEL	45404 (3gm)
LOCTITE 454 PRISM GEL	45478 (300ML)

UN Number

None Allocated

DG Class

None Allocated

Packing Group

None Allocated

Hazchem Code

None Allocated

Poisons Schedule

Not Scheduled

Product Use

GEL ADHESIVE FOR BONDING WOOD, CERAMICS, METALS, SOME PLASTICS, SOME RUBBERS ETC. IDEAL FOR POROUS SURFACES.

Physical Data

Appearance

COLOURLESS TRANSLUCENT PASTE WITH SHARP ACRID ODOUR.

Melting Point

Not applicable.

Boiling Point

>100° C

Vapour Pressure

0.5 mm Hg @ 25° C

Specific Gravity

1.1 @ 20° C

Flash Point

>85° C (COC)

Flamm. Limit LEL

Not known

Explosion Data

Not known

Solubility in Water

Immiscible (Polymerises on contact)

Other Properties

Volatile Component

90.0%

Autoignition Temp.

Not known

Vapour Density

Approx. 3

pH Value

Not known

Form

Liquid

Decomposition**Temperature**

Not known

Stability

Stable.

Haz.**Polymerization**

Will not occur

Materials to Avoid

Polymerised by contact with water, alcohol, amines, alkalies.

Molecular Weight

Not known

Other InformationPASTE

Ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	ALKYL ALPHA CYANOACRYLATE		0-90 %
	SILICA-TYPE THIXOTROPE		0-10 %
	HIGH MOLECULAR WEIGHT POLYMERIC THICKENER		0-10 %
	ORGANIC ADDITIVES AND STABILIZERS		0-1.1 %
	PERCENTAGES BY WEIGHT LESS THAN		

SHOWN.

Note: The above ingredients are present in percentages by weight less than shown.

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed

May cause irritation to mouth, throat and stomach. Cyanoacrylates are considered to have relatively low toxicity. It is almost impossible to swallow as it polymerises in the mouth.

Acute - Eye

Product is an eye irritant. Liquid product will bond eyelids. High concentrations of vapours, generally caused by a dry atmosphere with 50% humidity, will cause irritation. Causes tearing effect.

Acute - Skin

CAUTION: Skin contact may cause burns. Bonds skin in seconds.

Product is a skin irritant. Due to polymerisation at the skin surface allergic reaction is considered unlikely.

Cyanoacrylates give off heat on solidification. Contact between clothing and skin could lead to skin bonding with cyanoacrylate under unusually high heat production causing a skin burn. In rare cases a large drop will generate enough heat to cause a burn.

Acute - Inhaled

Product is irritating to the respiratory system. Vapours, generally caused by a dry atmosphere with 50% humidity, will irritate the mucous membranes and other regions of the respiratory tract.

Chronic

Exposure to vapours above the recommended limits may cause symptoms of non-allergic asthma.

Product contains modified silicon dioxide, however, no exposure to silica is expected under normal conditions of use. Silica dusts may be generated if cured material is machined or ground. Observe PRECAUTIONS FOR USE.

First Aid

Swallowed

DO NOT INDUCE VOMITING! It is almost impossible to swallow cyanoacrylate as the adhesive solidifies and adheres to the mouth. Saliva will lift this adhesive within one or two days.

ENSURE THAT AIR PASSAGES ARE KEPT CLEAR! Keep patient calm to avoid possibility of vomiting, as this may block air passage and cause suffocation. Seek medical advice if effects persist.

Eye

Immediately irrigate with plenty of water for at least 15 minutes. Seek medical attention.

Eye Bonded or Eyelids Bonded: Do not try to open bonded eye/eyelids. Release the eyelashes by swabbing with warm water or covering with a warm wet pad. The eye should then open of its own accord within 1 -4 days.

Adhesive on the Eyeball: Cyanoacrylate will attach itself to the eye protein but will usually dissociate from it over periods covering several hours. This will cause periods of weeping over several hours until clearance is achieved. There is no chronic after effect. During the period of contamination, double vision may be experienced together with the lachrymatory effect, and it is important to understand the cause and realise that full recovery is rapid and normally within one or three days, even with gross contamination.

Skin

Cyanoacrylate adhesives bond skin in seconds under slight pressure. Bonded skin should be peeled apart with the aid of warm soapy water, but never PULLED directly apart. Peel or roll the surfaces apart with the aid of a blunt edge ie. a spoon handle or spatula. In cases of large areas of skin being bonded, pre-soaking in a warm soapy water will be helpful. In the rare case where the cyanoacrylate generated enough heat to cause a burn, treat the burn normally after removing the adhesive from the skin.

Inhaled

Remove victim to fresh air. Recovery should be rapid after removal from exposure. Seek medical advice if effects persist.

First Aid**Facilities**

Eyewash station and normal washroom facilities must be provided, and a safety shower is strongly recommended.

Advice to Doctor

Advice to Doctor

Surgery should never be necessary to separate accidentally bonded body parts. Cyanoacrylate is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidental bonding with cyanoacrylates are handled best by passive non-surgical first aid.

Other Health Hazard Information

Medical**Conditions****Generally****Aggravated by**

Exposure

Respiratory disorders. Eye disorders.

PRECAUTIONS FOR USE

Exposure Limits

No exposure standard has been established for this product by Worksafe Australia. An exposure limit has been set by Worksafe Australia (WSA) and ACGIH for ingredient(s) as listed below.

Hydroquinone: TWA 2 mg/m³ (WSA)

Ethyl Cyanoacrylate: TWA: 0.2ppm (ACGIH)

Modified Silicon Dioxide: 10 mg/m³ inspirable (WSA)

Other Exposure Info.

TWA is the time weighted average concentration of the work atmosphere over a normal 8-hour work day and a 40-hour work week.

Product contains modified silicon dioxide, however, no exposure to silica is expected under normal conditions of use. Silica dusts may be generated if cured material is machined or ground, in which case AS approved respiratory protection is recommended.

Eng. Controls

Consider mechanical ventilation.

Use with adequate ventilation. Must be sufficient to prevent breathing of vapour. Maintain concentration below recommended exposure limit. Local exhaust ventilation system may be required. Use positive down draft exhaust ventilation.

Other Information

In very dry atmospheres (below 50% Relative Humidity) vapour given off during use may irritate the eyes and respiratory system. When Relative Humidity is adjusted to above 55% by the use of suitable humidifiers there should be no problem of irritancy. Such vapours have no acute or chronic effects with normal industrial exposure; however, there may be a slight risk of chronic effects in some individuals in the unlikely event of exposure for extended periods to very high concentrations. Ventilation and/or humidity control will eliminate any such possibility.

Personal Protection

Protective Equip.

Avoid skin and eye contact. Avoid inhaling the vapour, mist or dust. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before storing/re-using. Wearing of the following personal protective equipment is recommended. Eye Protection: Eye Protection should be used where there is any risk of splashing, such as safety glasses/goggles.

Skin Protection: Polyethylene or Polypropylene gloves are recommended and also

a Polyethylene or Polypropylene apron when using large volumes. DO NOT use PVC, rubber, nylon or fabric gloves/apron; unsuspected cuts or cracks in such material, or the use of fabric, could lead to skin bonding with cyanocrylate under unusually high heat production causing a skin burn.

Respiratory Protection: Not normally required, however, if exposure limits are exceeded, cured material is machined or ground, if effects occur, or, product is being used in dusty or confined conditions, use of a mask or respirator may be required. For help in selecting suitable equipment, consult AS/NZS 1715. Avoid contact with clothes fabric, rags or tissues. Contact with these materials may cause polymerisation which can cause smoke, thermal burns, and strong, irritating vapours.

Flammability

Fire Hazards

Will burn if involved in a fire but not considered to be a significant fire risk. Combustible. Keep away from heat, sparks or naked flames.

SAFE HANDLING INFORMATION

Storage and Transport

Storage and Transport

Transport in original containers. Store in original containers. Keep containers firmly closed when not in use. Storage may be at room temperature, however storage at or below 5°C will ensure maximum shelf life.

UN No: Unrestricted. Not defined as a dangerous good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Other Storage Info.

Keep these adhesives OUT OF REACH OF CHILDREN due to their strong skin bonding action.

DO NOT MIX directly with LOCTITE CYANOACRYLATE ACTIVATORS or ACCELERATORS.

Proper Shipping Name

None Allocated

Spills and Disposal

Spills & Disposal

VENTILATE the area. Cloths should NOT be used to mop up spills. Cover with DRY wood, DRY sawdust or flour and collect for disposal, avoiding skin contact. Alternatively dyke the spillage with sand and treat cautiously with water to

solidify. Liquid products should be poured into 10 times their volume of water to solidify. Once spilled product has been solidified, dispose of in trade waste bin. Cured product is biodegradable. Protective clothing, safety glasses, polyethylene/polypropylene gloves should be worn when dealing with LARGE spills.

Fire/Explosion Hazard

Fire/Explos. Hazard

No unusual fire or explosion hazards. Decomposes on heating emitting noxious fumes. On burning will emit noxious fumes. Extinguish fire with the following: Use CO₂, dry chemical or foam. Halons.

Hazardous Reaction

Reactive with water to solidify and generate heat.
Destabilised and solidified by basic material.

Hazchem Code

None Allocated

OTHER INFORMATION

Toxicology

This product is considered to be of low toxicity: Acute dermal LD₅₀ (rabbit) 2000mg/Kg. Acute Oral LD₅₀ 5000mg/Kg (rat).

Vapours have no acute or chronic effects with normal industrial exposure; however, there may be a slight risk of chronic effects in some individuals in the unlikely event of exposure for extended periods to very high concentrations. Ventilation and/or humidity control will eliminate any such possibility.

This product is almost impossible to swallow as it solidifies rapidly in the mouth and bonds to the mouth tissue. CYANOACRYLATES have been used in the human body as surgical adhesives, and are biodegradable. Odour threshold value is approx. 1ppm.

Environ. Protection

Biodegradable.

Risk Statement

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

Safety Statement

S2 Keep out of reach of children.

S23 Do not breathe gas/fumes/vapour/spray

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of soap and water.

S37/39 Wear suitable gloves and eye/face protection.

S51 Use only in well ventilated areas.

Hazard Category

Irritant

CONTACT POINT

Contact

Technical Services Manager: Gerard Buys 1300 885 556 / 0411 669 002

...End Of MSDS...