



SUPER GLUE, LIQUID

8333-LIQUID

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Name: Super Glue, Liquid

SDS Code: 8333-Liquid

Related Part #: 8333-3G, 8333-20G

Recommended Use and Restriction on Use

Use: Cyanoacrylate adhesive

Uses Advised Against: Not available

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

MG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA

☎ +1-800-340-0772

☎ +1-905-331-1396

FAX +1-800-340-0773

FAX +1-905-331-2682

E-MAIL support@mgchemicals.com

E-MAIL info@mgchemicals.com

WEB www.mgchemicals.com

E-MAIL (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents
USA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300**

For emergencies involving dangerous goods; Collect 24/7
CANADA: Call CANUTEC ☎: **+1-613-996-6666** or ***666** on cellular phones

SUPER GLUE, LIQUID

8333-LIQUID

Section 2: Hazard(s) Identification

Classification of the Hazardous Material

GHS Categories

Criteria	Category	Signal Word	Pictograms
Eye Irritation	2	Warning	Exclamation
Sensitization Skin sensitizer	1	Warning	Exclamation
Skin Irritation	2	Warning	Exclamation
Specific Target Organ Toxicity Single Exposure	3	Warning	Exclamation

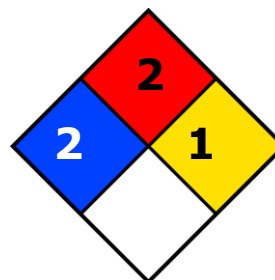
Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Other Classifications

HMIS® RATING

HEALTH:	* 2
FLAMMABILITY:	2
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:


0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

Label Elements

Signal Word	WARNING
Pictograms	Hazard Statements
	H319: Causes serious eye irritation H335: May cause respiratory irritation H315: Cause skin irritation H317: May cause an allergic skin reaction
<i>None mandated</i>	H227: Combustible Liquid
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/vapors.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash hands thoroughly after handling.
Response	Precautionary Statements
P370 + P378	In case of fire: Use water spray, dry chemical, carbon dioxide, or chemical foam to extinguish.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P272	Contaminated clothing should not be allowed out of the workplace.

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

Continued...

Storage	Precautionary Statements
P403 + P233	Store in well-ventilated area. Keep container tightly closed.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

Hazards Not Otherwise Classified

Bonds skin or eyes in seconds.

Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(Weight/Weight)
7085-85-0	ethyl-2-cyanoacrylate	100%

Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	<i>redness, tearing, severe irritation, pain</i>
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If bonding occurs, do NOT force eye open. If eye bonded or if irritation persists: Get medical attention.
IF INHALED	P304 + P340, P312, P308 + P313
Immediate Symptoms	<i>cough, irritation of the respiratory track</i>
Response	Remove person to fresh air and keep comfortable for breathing. If feeling unwell: Call a POISON CENTER/doctor.

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

Continued...

IF ON SKIN	P303 + P352, P362 + P364, P333 + P313
Immediate Symptoms	<i>mild to moderate irritation, rash, redness</i>
Response	Do NOT pull bonded skin apart by force. Wash with plenty of warm water. Take off contaminated clothing and wash it before reuse. If skin bonding, irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED	P301 + P330 (unlikely route of exposure because the product immediately solidifies in contact with saliva, adhering in the mouth orifice)
Immediate Symptoms	<i>None expected</i>
Response	Rinse mouth with warm water. Do NOT attempt to remove adhesive that has bonded by force. The solidified adhesive is non-hazardous. If skin bonding occurs: encourage wetting with saliva and apply gentle pressure with a blunt instrument to peel or roll skin apart. Get medical advice/attention.

Advice to Physicians

Accidentally bonded tissue doesn't require surgery. Lachrymatory effects and saliva may take up to 3 days to unglue eyelids or lips. Note that solidified adhesive particles may cause abrasive damage to the eyes.

Section 5: Fire-Fighting Measures

Auto-ignition Temperature ^{a)}	480 °C [896 °F]	Flash Point ^{a)}	>81 °C [>178 °F]	LFL [LEL] UFL [UEL] ^{b)}	Not available
--	--------------------	----------------------------------	---------------------	--	---------------

In case of fire	P370 + P378
Extinguishing Media	Use water spray, dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.
Specific Hazards	Combustible liquid. Produces irritating fumes in fires or in contact with hot surfaces.
Combustion Products	Produces carbon oxides (CO, CO ₂), nitrogen oxides (NO _x)
Fire-Fighter	Wear self-contained breathing apparatus for fire fighting

a) Literature value, for the component with the lowest flash point.

b) Calculated based on Raoult's Law and using Le Chatelier principle

LFL = Lower Flammability [or Explosion] Limit (in volume %);

UFL = Upper Flammability [or Explosion] Limit (in volume %)

SUPER GLUE, LIQUID

8333-LIQUID

Section 6: Accidental Release Measures

Personal Protection	See Section 8. Avoid breathing the vapors/fumes.
Containment	Remove all sources of ignition and heat. Prevent spill from entering drains and waterways. Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning	Do not use mop or cloth to clean. Flood with water to fully polymerize the adhesive. Scrape off the cured adhesive.
Disposal	The cured adhesive is not a hazardous waste and may be disposed using conventional methods.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Keep away from heat, hot surfaces, open flames and other ignition sources. No smoking. Keep away from strong light sources. Avoid contact with skin or eyes. Do not breathe mist/vapors. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.
Handling	Wear protective gloves/eye protection. Wash hands thoroughly after handling.
Storage	Store in a well-ventilated area. Keep tightly closed. Keep storage temperature ≤ 25 °C [≤ 77 °F]. Recommendation: Ideal storage temperature is 5 to 10 °C [41 to 50 °F]. Keep away from moisture, water, alcohols, amines, and alkali metals.

SUPER GLUE, LIQUID**8333-LIQUID****Section 8: Exposure Controls/Personal Protection****Routes of Entry**

Eyes, inhalation, and skin

Substances with Occupational Exposure Limit Values

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
ethyl-2-cyanoacrylate	ACGIH	0.2 ppm	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	0.2 ppm	Not established
	Canada BC	0.2 ppm	Not established
	Canada ON	0.2 ppm	Not established
	Canada QC	Not established	Not established

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from by RTECS database² of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long term permissible exposure limits (PEL) for 8 h.

Engineering Controls

Ventilation Keep airborne concentrations below exposure limits.

Personal Protective Equipment

Eye protection Wear appropriate protective eyeglasses or chemical safety goggles.

RECOMMENDATION: Use safety glasses with lateral protection.

Skin Protection Wear appropriate protective clothing to prevent skin contact.

RECOMMENDATION: Use neoprene, natural rubber, butyl rubber, or other chemically resistant gloves.

Do not use cotton or cloth gloves.

Respiratory Protection If exposed to mist, wear respirator such as a half-mask respirator.

RECOMMENDATION: Consult your local safety supply store to ensure your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

Continued on the next page

SUPER GLUE, LIQUID**8333-LIQUID****General Hygiene Considerations**

Wash hands with water and soap after use.

Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit	Not available
Appearance	Green	Upper Flammability Limit	Not available
Odor	Mild	Vapor Pressure @27 °C	0.4 mmHg [<0.1 kPa]
Odor Threshold	Not available	Vapor Density	>4 (Air =1)
pH	Not available	Specific Gravity @21 °C	1.1
Freezing/Melting Point	Not available	Solubility in Water	Slight
Boiling Point	≥ 149 °C [≥ 300 °F]	Partition Coefficient	Not available
Flash Point	>93 °C [>200 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability (solid, gas)	Not available	Viscosity @40 °C	Not available

Section 10: Stability and Reactivity

Reactivity	Will rapidly and exothermically polymerize in presence of water, amines, alkalis, and alcohols.
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Heat, ignitions sources and incompatible substances
Incompatibilities	Strong oxidizing agents, water, amines, alkalis, and alcohols
Decomposition	For thermal decomposition, see combustion products in Section 5

SUPER GLUE, LIQUID**8333-LIQUID****Section 11: Toxicological Information****Routes of Exposure**

Eyes, inhalation, and skin

Symptoms Summary

- Eyes** Causes severe eye irritation or pain. Of splashed in eyes it will bond in seconds eyelids in seconds.
- Skin** May cause skin irritation, redness, and pain. May cause rash due to allergic reaction.
- Inhalation** May cause nose, throat and lung irritation.
- Ingestion** Not applicable due to likely polymerization in mouth.
- Chronic** Prolonged and repeated exposure may lead to skin sensitization.

Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation	TCLo inhalation
ethyl-2-cyanoacrylate	>5 000mg/kg Rat	>2 000 mg/kg Rabbit	21 110 mg/m ³ Rat 1 h	Not available

Note: Representative toxicity data from by RTECS database² of the Canadian Centre for Occupational Health and Safety (CCOHS) data from supplier MSDS were also consulted.

Continued on the next page

SUPER GLUE, LIQUID**8333-LIQUID****Other Toxicological Effects**

Skin corrosion/irritation	Moderate skin irritant
Serious eye damage/irritation	Serious to moderate eye irritant
Respiratory and skin sensitization (allergic reactions)	Skin sensitizer based on epidemiological evidence
Carcinogenicity (risk of cancer)	Not classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
Mutagenicity (risk of heritable genetic effects)	No known effects
Reproductive Toxicity (risk to sex functions)	No known effects
Teratogenicity (risk of fetus malformation)	No known effects
STOT-single exposure	Respiratory irritant effects
STOT-repeated exposure	No known effects
Aspiration hazard	Mixture does not contain components classified as aspiration hazards.

Section 12: Ecological Information

The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

Not available

Acute Ecotoxicity

Not available

Chronic Ecotoxicity

Not available

Persistence and Biodegradability

Not available

Bioaccumulative Potential

Not available

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

Mobility in Soil

Not available

Other Effects

Not available

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, provincial, state, and federal regulations.

Section 14: Transport Information

Ground

Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations);
USA DOT 49 CFR (Parts 100 to 185) **Regulations.**

Sizes 450 L and under

Not Regulated

Applies to combustible liquids shipped in non-bulk packages such as 8333-3G, 8333-20G

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 30 mL and under

Excepted Quantity

Document as class

E1 (Max net quantity per packaging 1 L)



Sizes greater than 30 mL

UN number: UN3334

Shipping Name:

Aviation Regulated Liquid, N.O.S. (ethyl-2-cyanoacrylate)

Class: 9

Packing Group: III

Marine Pollutant: No

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

Sea

Refer to IMDG regulations.

Not Regulated

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information

Canada

WHMIS Classification



B3 – Combustible liquid

D2B – Toxic (Skin/Eye Irritation, Skin sensitizer)

Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)

All hazardous ingredients are listed on the DSL/NDSL.

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

USA

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain substances, which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

Europe

RoHS

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

MSDS Prepared by	Michel Hachey
Date of Revision	21 July 2014
Supersedes	17 October 2013
Reason for Changes:	Change to HCS 2012 format

Reference

- 1) ACGIH 2013 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2013).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Continued on the next page

SUPER GLUE, LIQUID

8333-LIQUID

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
NOELR	No observable effect loading ratio
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

Email: support@mgchemicals.com

Mailing Addresses *Manufacturing & Support*
1210 Corporate Drive
Burlington, Ontario, Canada
L7L 5R6

Head Office
9347-193rd Street
Surrey, British Columbia, Canada
V4N 4E7

Disclaimer This material safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.