



## Safety Data Sheet

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LOCTITE 425 INSTANT ADHESIVE known as LOCTITE 425  
ASSURE SUR 20G.

SDS No. : 153569

V001.0

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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** LOCTITE 425 INSTANT ADHESIVE known as LOCTITE 425 ASSURE SUR 20G.

**Intended use:** Cyanoacrylate

**Supplier:**

Henkel New Zealand Ltd  
2 Allens Rd  
Auckland, 2013  
New Zealand

Phone: +64 (9) 272-6710

**Emergency information:** 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### SECTION 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

**HSNO Classification:**

3.1D Class 3 - Flammability, Subclass 3.1 - Liquids, Hazard Classification D

Class 6 - Toxicity, Subclass 6.3 - Skin irritant, Hazard Classification A

Class 6 - Toxicity, Subclass 6.4 - Eye irritant, Hazard Classification A

Class 6 - Toxicity, Subclass 6.1 - Acutely toxic, Hazard Classification E

Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification D

**GHS Classification:**

**Hazard Class**

Flammable liquids

Skin irritation

Serious eye irritation

Target Organ Systemic Toxicant -

Single exposure

Acute hazards to the aquatic  
environment

**Hazard Category**

Category 4

Category 2

Category 2A

Category 3

Category 3

**Target organ**

respiratory tract irritation

**Hazard pictogram:**



**Signal word:**

Warning

<b>Hazard statement(s):</b>	H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H402 Harmful to aquatic life.
<b>Precautionary Statement(s):</b>	
<b>Prevention:</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves, eye protection, and face protection.
<b>Response:</b>	P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
<b>Storage:</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
<b>Disposal:</b>	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<b>General chemical description:</b>	Mixture Cyanoacrylate
<b>Type of preparation:</b>	Cyanoacrylate Adhesive
<b>Identity of ingredients:</b>	

Chemical ingredients	CAS-No.	Proportion
Ethyl 2-cyanoacrylate	7085-85-0	30- < 60 %
non hazardous ingredients~		30- < 60 %

### SECTION 4 FIRST AID MEASURES

<b>Ingestion:</b>	Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).
<b>Skin:</b>	Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action.
<b>Eyes:</b>	If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.
<b>Inhalation:</b>	Move to fresh air, consult doctor if complaint persists.

## SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Foam, extinguishing powder, carbon dioxide. Fine water spray
<b>Decomposition products in case of fire::</b>	Thermal decomposition can lead to release of irritating gases and vapors. Oxides of carbon.
<b>Special protective equipment for fire-fighters:</b>	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Clean-up methods:</b>	Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

## SECTION 7. HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Use only in well-ventilated areas. Use of dispensing equipment is recommended to minimise the risk of skin or eye contact
<b>Conditions for safe storage:</b>	For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C (35.6 - 46.4 °F)

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Workplace exposure standards:

None

<b>Engineering controls:</b>	Ensure good ventilation/suction at the workplace.
<b>Eye protection:</b>	Wear protective glasses.
<b>Skin protection:</b>	<p>The use of chemical resistant gloves such as Nitrile is recommended.</p> <p>Polyethylene or polypropylene gloves are recommended when using large volumes.</p> <p>Do not use PVC, rubber or nylon gloves.</p> <p>Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.</p>
<b>Respiratory protection:</b>	Ensure adequate ventilation.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	dark blue liquid
<b>Odor:</b>	no valuation
<b>Specific gravity:</b>	1.1
<b>Boiling point:</b>	> 149 °C (> 300.2 °F)
<b>Flash point:</b> (Tagliabue closed cup)	80 - 93 °C (176 - 199.4 °F)
<b>Vapor pressure:</b>	< 0.2 mm hg
<b>Density:</b>	1.1000 g/cm <sup>3</sup>
<b>Solubility in water:</b>	Polymerises in presence of water.

## SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	Stable under normal conditions of storage and use.
<b>Incompatible materials:</b>	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:****Ingestion:**

Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.

**Skin:**

Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin.

**Eyes:**

Irritating to eyes. Causes excessive tearing. Eyelids may bond.

**Inhalation:**

Exposure to vapors above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and tightness in the chest.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	LD50 LD50	> 5,000 mg/kg > 2,000 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	slightly irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	irritating	72 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising		guinea pig	not specified

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	negative negative negative	bacterial reverse mutation assay (e.g. Ames test) mammalian cell gene mutation assay in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

**SECTION 12. ECOLOGICAL INFORMATION****General ecological information:**

Biological and Chemical Oxygen Demands (BOD and COD) are insignificant., Do not empty into drains / surface water / ground water.

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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Ethyl 2-cyanoacrylate 7085-85-0	not readily biodegradable.	aerobic	57 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
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**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Ethyl 2-cyanoacrylate 7085-85-0	0.776				22 °C	EU Method A.8 (Partition Coefficient)

**SECTION 13. DISPOSAL CONSIDERATIONS****Waste disposal of product:**

Cured adhesive: Dispose of as water insoluble non-toxic solid chemical in authorised landfill or incinerate under controlled conditions.  
Dispose of in accordance with local and national regulations.  
Contribution of this product to waste is very insignificant in comparison to article in which it is used

**Disposal for uncleaned package:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.  
Disposal must be made according to official regulations.

**SECTION 14. TRANSPORT INFORMATION****Dangerous Goods information:**

Not Classified as Dangerous Goods according to NZS 5433: 2012 and the Land Transport Rule: Dangerous Goods 2005.

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

UN no.: 3334  
Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)  
Class or division: 9  
Packing group: III  
Packing instructions (passenger): 964  
Packing instructions (cargo): 964  
Additional Information IATA: Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

**SECTION 15. REGULATORY INFORMATION****New Zealand regulatory information:**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

**HSNO Approval Number:**

Group standard HSR002657

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<b>Site and Storage:</b>	Refer to the site and storage requirements for this Group Standard.
<b>NZIoC:</b>	The hazardous components of this product are listed on the New Zealand Inventory of chemicals (NZIoC).

<b>SECTION 16. OTHER INFORMATION</b>
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<b>Abbreviations/acronyms:</b>	HSNO - Hazardous Substances and New Organisms GHS: Globally Harmonized System CAS: Chemical Abstracts Service IMDG: International Maritime Dangerous Goods code IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
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<b>Reason for issue:</b>	New Safety Data Sheet format. involved chapters:
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<b>Disclaimer:</b>	<p>The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.</p> <p>The information contained in this Safety Data Sheet is offered in good faith and has been developed from what is believed to be accurate and reliable sources. The information is offered without warranty, representation, inducement or licence and Henkel New Zealand Limited assumes no legal responsibility for reliance upon same. Henkel New Zealand Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet.</p> <p>This information is not to be construed as a representation that the material is suitable for any particular purpose or use except those conditions and warranties implied by Government statutes. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use.</p> <p>No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.</p>
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