Safety Data Sheet

LOCTITE AA H9390AT known as CELLUBOND H9390AT 16KG

SDS No. : 478330
V001.2
Date of issue: 30.05.2016

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE AA H9390AT known as CELLUBOND H9390AT 16KG

Intended use: Coating

Supplier:
Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture
Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard Class	Hazard Category	Target organ
Flammable liquids	Category 2	
Skin irritation	Category 2	
Serious eye irritation	Category 2A	
Toxic to reproduction	Category 2	
Target Organ Systemic Toxicant - Single exposure	Category 3	Central Nervous System
Target Organ Systemic Toxicant - Repeated exposure	Category 2	
Aspiration hazard	Category 1	
Acute hazards to the aquatic environment	Category 3	

Hazard pictogram:

Signal word: Danger

Hazard statement(s):	H225 Highly flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H402 Harmful to aquatic life.
Precautionary Statement(s):	
Prevention:	P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves, eye protection, and face protection. P201 Obtain special instructions before use. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment.
Response:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. P370+P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P331 Do NOT induce vomiting. P362 Take off contaminated clothing.
Storage:	P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool.
Disposal:	P501 Dispose of contents/container in accordance with national regulation.

Classification of material F - Flammable Xn - Harmful

Risk phrases:
R10 Flammable.
R36/38 Irritating to eyes and skin.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65 Harmful: may cause lung damage if swallowed.
R63 Possible risk of harm to the unborn child.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Safety phrases:
S16 Keep away from sources of ignition - No smoking.
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 water.
S35 This material and its container must be disposed of in a safe way.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S53 Avoid exposure - obtain special instructions before use.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Dangerous Goods information:
Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:
HAZARDOUS

Section 3. Composition / information on ingredients

General chemical description: Mixture
Type of preparation: Coating

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Acetone	67-64-1	60- 100 %
Toluene	108-88-3	< 20 %
non hazardous ingredients~		10- 30 %

Section 4. First aid measures

Ingestion: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage.
Seek medical advice.
If vomiting occurs, prevent aspiration by keeping the patient's head below the knees.

Skin: For skin contact flush with large amounts of water.
Seek medical advice.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.

Inhalation: If inhaled, immediately remove the affected person to fresh air.
If symptoms develop and persist, get medical attention.

First Aid facilities: Eye wash and safety shower
Normal washroom facilities

Medical attention and special treatment: Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media: Foam, dry chemical or carbon dioxide.

Improper extinguishing media: Water jet (solvent-containing product).

Combustion behaviour: Solvent containing flammable product. In case of fire toxic gases are released.

Decomposition products in case of fire:: Thermal decomposition can lead to release of irritating gases and vapors.
Carbon monoxide.
Carbon dioxide.
Oxides of nitrogen.

Particular danger in case of fire:: WARNING FLAMMABLE!
Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.
Collect contaminated fire fighting water separately. It must not enter drains.

Hazchem code: •3YE

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.
Wear protective equipment.
See advice in section 8
Keep unprotected persons away.

Environmental precautions: Do not empty into drains / surface water / ground water / soil.

Clean-up methods: Soak up with inert absorbent.
Store in a closed metal container until ready for disposal.
Dispose of according to Federal, State and local governmental regulations.

Section 7. Handling and storage

Precautions for safe handling: Avoid breathing vapors or mists of this product.
Avoid open flames and sources of ignition.
Avoid contact with skin and clothing.
Wear suitable protective clothing, gloves and eye/face protection.
Ventilate working rooms throughly. Avoid naked flames, sparking and sources of ignition.
Switch off electrical devices. Do not smoke, do not weld.

Conditions for safe storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Must be stored in the facility for the dangerous goods
Refer to AS 1940: The Storage and Handling of Flammable and Combustible Liquids.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
ACETONE 67-64-1		500	1,185	-	-	-	-

ACETONE 67-64-1		-	-	-	-	1,000	2,375
TOLUENE 108-88-3		50	191	-	-	-	-
TOLUENE 108-88-3		-	-	-	-	150	574

Engineering controls:
Ensure adequate ventilation.
Ventilation should effectively remove and prevent buildup of any vapor/mist/fume/dust generated from the handling of this product.

Eye protection:
Wear chemical goggles and face shield.

Skin protection:
Wear suitable protective clothing.
Suitable protective gloves.
Butyl rubber gloves.
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.

Respiratory protection:
If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance:
Red
Liquid

Odor:
Acetone

Flash point:
(Supplier method)
< 23 °C (< 73.4 °F)

Density:
0.79 - 0.81 g/cm30.79 - 0.81 g/cm3

Solubility in water:
Insoluble

Section 10. Stability and reactivity

Stability:
Stable under normal conditions of temperature and pressure.

Conditions to avoid:
Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials:
Strong acids, alkalies and oxidizing agents.

Hazardous decomposition products:
Thermal decomposition can lead to release of irritating gases and vapors.

Carbon monoxide.
Carbon dioxide.
Oxides of nitrogen.

Section 11. Toxicological information

Health Effects:

Ingestion: May cause gastrointestinal tract irritation if swallowed.
Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.
Vomiting may cause aspiration of solvent resulting in chemical pheumonitis.

Skin: Irritating to skin.
Symptoms may include redness, burning, drying, cracking and skin burns.

Eyes: Causes serious eye irritation.
Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation: May cause dizziness, incoordination, headache, nausea, and vomiting.
Central nervous system depression, including dizziness, drowsiness, fatigue, nausea, headache, unconsciousness.

Chronic effects:

Toluene 108-88-3: Functional disturbances/damage to the central-nervous system, skin damage (through contact with the liquid); in humans severe central nervous system effects including brain atrophy have been found at very high exposure levels. Neuropsychological effects, effects on the inner ear in humans and finding of nonmalignant tumours in mice are reported. Case studies on high-level toluene exposure of pregnant women (sniffing) provide evidence of developmental toxicity (physical and neurological abnormalities).

Toxicity for reproduction: Toxic to reproduction, category 2, Suspected of damaging fertility or the unborn child.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone	LD50	5,800 mg/kg	oral		rat	
67-64-1	LC50	76 mg/l	inhalation	4 h	rat	
	LD50	> 15,688 mg/kg	dermal		rabbit	
Toluene	LD50	5,580 mg/kg	oral		rat	
108-88-3	LC50	28.1 mg/l	inhalation	4 h	rat	
	LD50	> 5,000 mg/kg	dermal		rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Toluene 108-88-3	irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Acetone 67-64-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Acetone 67-64-1	not sensitising	Guinea pig maximisation test	guinea pig	Not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Acetone 67-64-1	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Acetone 67-64-1	negative	oral: drinking water		mouse	
Toluene 108-88-3	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Acetone 67-64-1	NOAEL=900 mg/kg	oral: drinking water	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Ecotoxicity: Harmful to aquatic life.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Acetone 67-64-1	LC50	8,120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetone 67-64-1	EC50	8,800 mg/l	Daphnia	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Acetone 67-64-1	NOEC	530 mg/l	Algae	8 d	Microcystis aeruginosa	DIN 38412-09
Acetone 67-64-1	EC10	1,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Toluene 108-88-3	NOEC	3.2 mg/l	Fish	28 d	Cyprinodon variegatus	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Toluene 108-88-3	LC50	5.5 mg/l	Fish	96 h	Oncorhynchus kisutch	OECD Guideline 203 (Fish, Acute Toxicity Test)
Toluene 108-88-3	EC50	11.5 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Toluene 108-88-3	IC50	12 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Toluene 108-88-3	NOEC	29 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
Toluene 108-88-3	readily biodegradable	aerobic	80 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Acetone 67-64-1	-0.24					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Toluene 108-88-3		90	3 d	Leuciscus idus melanotus		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Toluene 108-88-3	2.73				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	1139
Proper shipping name:	COATING SOLUTION
Class or division:	3
Packing group:	II
Hazchem code:	•3YE
Emergency information:	Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.:	1139
Proper shipping name:	COATING SOLUTION
Class or division:	3
Packing group:	II
EmS:	F-E ,S-E
Seawater pollutant:	-

Air transport IATA:

UN no.:	1139
Proper shipping name:	Coating solution
Class or division:	3
Packing group:	II
Packing instructions (passenger)	353
Packing instructions (cargo)	364

Section 15. Regulatory information

SUSMP Poisons Schedule 5

Section 16. Other information

Abbreviations/acronyms:

ADGC - Australian Dangerous Goods Code
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
STEL - Short term exposure limit
TWA - Time weighted average

Reason for issue:

Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue:

08.08.2014

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel Australia Pty. 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 Australia Pty. Limited concerning the properties of the material. The information contained in the 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 Australia Pty. Limited assumes no legal responsibility for reliance upon same. Henkel Australia Pty. Limited disclaims any liability for loss, injury or damage incurred in connection with the use of the material or its associated Safety Data Sheet. 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 either Commonwealth or State 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.