

Safety Data Sheet

LOCTITE EA 3463 METAL MAGIC STEEL known as F/M METAL MAGIC STEEL STICK 113

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SDS No.: 153766

V001.3

Date of issue: 03.02.2023

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

Product name: LOCTITE EA 3463 METAL MAGIC STEEL known as F/M METAL MAGIC STEEL

STICK 113

Intended use: Epoxy resin

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 ClassHazard CategorySkin irritationCategory 2Serious eye irritationCategory 2ASkin sensitizerCategory 1Acute hazards to the aquaticCategory 3environmentCategory 3

Chronic hazards to the aquatic Cate

environment

Category 3

Hazard pictogram:



Signal word: Warning

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Hazard statement(s): H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention: P261 Avoid breathing dust or fumes.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients

General chemical description: Mixture **Type of preparation:** Epoxy resin

Identity of ingredients:

CAS-No.	Proportion
14807-96-6	30- < 60 %
65997-17-3	30- < 60 %
1675-54-3	10- < 30 %
72244-98-5	10- < 30 %
	14807-96-6 65997-17-3 1675-54-3

Section 4. First aid measures

Ingestion: Rinse mouth, do not induce vomiting, consult a doctor.

Skin: Immediately wash skin thoroughly with soap and water.

Seek medical advice.

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

Seek medical advice.

Inhalation: Move to fresh air, consult doctor if complaint persists.

First Aid facilities: Eye wash

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically.

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Section 5. Fire fighting measures

Suitable extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Improper extinguishing media: High pressure waterjet

Decomposition products in case of

fire:

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

Oxides of carbon.

Oxides of nitrogen.

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.

Section 6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes.

Wear protective equipment.

Use personal protective equipment as described in Section 8.

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

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal.

Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: See advice in section 8

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

Prolonged or repeated skin contact should be avoided

Conditions for safe storage: Store in a cool, dry, well-ventilated area.

Do not expose to direct sunlight.

Section 8. Exposure controls / personal protection

National exposure standards:

Ingredient [Regulated substance]	form of	TWA (ppm)	TWA			STEL (ppm)	STEL
	exposure		(mg/m3)	(ppm)	(mg/m3)		(mg/m3)
TALC, (CONTAINING NO			2.5				
ASBESTOS FIBRES)							
14807-96-6							
Man-Made Vitreous (Silicate) Fibres	Inhalable dust.		2				
(MMVF): Refractory Ceramic Fibres							
(RCF), Special Purpose Glass Fibres							
and High Biopersistence MM							
65997-17-3							

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Man-Made Vitreous (Silicate) Fibres (MMVF): Glass wool, rock (stone) wool, slag wool and continuous glass filament and Low Biopersis 65997-17-3	Inhalable dust.	2		
Man-Made Vitreous (Silicate) Fibres (MMVF): Refractory Ceramic Fibres (RCF), Special Purpose Glass Fibres and High Biopersistence MM 65997-17-3	Respirable fibers.			

Engineering controls: 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.

Skin protection: Use of protective coveralls and long sleeves is recommended.

Suitable protective gloves.

Neoprene, Butyl-rubber, or nitrile-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: black solid
Odor: pungent

pH: Not applicable, Product is non-polar/aprotic.

Melting point / freezing point: $< 0 \, ^{\circ}\text{C} \, (< 32 \, ^{\circ}\text{F})$

Specific gravity: 2.247

Boiling point: > 35 °C (> 95 °F) **Flash point:** > 93.3 °C (> 199.94 °F)

(Setaflash Closed Cup; ASTM

D3828 Method B)

Vapor density: Not applicable, Product is a solid.

Density: 2.25 g/cm3
Solubility in water: Insoluble
Auto ignition: Not applicable

Decomposition temperature:

VOC content (2010/75/EC) 2 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.

Protect from direct sunlight.

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Incompatible materials: Reaction with strong acids.

Oxidizing agents.

Hazardous decomposition

products:

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

Oxides of carbon. Oxides of nitrogen.

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion: May cause irritation to the gastrointestinal tract, mouth and mucous membranes.

Skin: Irritating to skin.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

May cause an allergic skin reaction.

Eyes: Causes serious eye irritation.

Symptoms may include severe irritation, pain, tearing, blurred vision.

Inhalation: May cause irritation to nose and throat.

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Talc	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 423 (Acute
14807-96-6	LC50	> 2.1 mg/l	inhalation	4 h	rat	Oral toxicity)
	LD50	> 2,000 mg/kg	dermal		rat	OECD Guideline 403 (Acute
						Inhalation Toxicity)
						OECD Guideline 402 (Acute
						Dermal Toxicity)
Glass, oxide, chemicals	LD50	> 5,000 mg/kg	oral		rat	not specified
65997-17-3						
bis-[4-(2,3-	LD50	> 2,000 mg/kg	oral		rat	OECD Guideline 420 (Acute
epoxipropoxi)phenyl]prop	LD50	> 2,000 mg/kg			rat	Oral Toxicity)
ane			dermal			OECD Guideline 402 (Acute
1675-54-3						Dermal Toxicity)
Poly[oxy(methyl-1,2-	LD50	2,600 mg/kg	oral		rat	equivalent or similar to OECD
ethanediyl)], a-hydro-w-	LD50	> 10,200 mg/kg			rabbit	Guideline 401 (Acute Oral
hydroxy-, ether with 2,2-			dermal			Toxicity)
bis(hydroxymethyl)-1,3-						equivalent or similar to OECD
propanediol (4:1), 2-						Guideline 402 (Acute Dermal
hydroxy-3-						Toxicity)
mercaptopropyl ether						
72244-98-5						

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Talc 14807-96-6	slightly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane 1675-54-3	moderately irritating	24 h	rabbit	Draize Test
Poly[oxy(methyl-1,2- ethanediyl)], a-hydro-w- hydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1), 2- hydroxy-3- mercaptopropyl ether 72244-98-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Talc	not irritating		rabbit	OECD Guideline 405 (Acute
14807-96-6				Eye Irritation / Corrosion)
bis-[4-(2,3-	slightly irritating		rabbit	Draize Test
epoxipropoxi)phenyl]prop				
ane				
1675-54-3				
Poly[oxy(methyl-1,2-	not irritating		rabbit	equivalent or similar to OECD
ethanediyl)], a-hydro-w-				Guideline 405 (Acute Eye
hydroxy-, ether with 2,2-				Irritation / Corrosion)
bis(hydroxymethyl)-1,3-				
propanediol (4:1), 2-				
hydroxy-3-				
mercaptopropyl ether				
72244-98-5				

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Talc 14807-96-6	not sensitising	Guinea pig maximisat ion test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane 1675-54-3	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	Sub-Category 1B (sensitising)	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Talc 14807-96-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell transformation assay	with and without without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Talc 14807-96-6	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane 1675-54-3	negative negative with metabolic activation	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay	with and without with and without		EU Method B.13/14 (Mutagenicity) not specified
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane 1675-54-3	negative negative negative negative	oral: gavage oral: gavage oral: gavage oral: gavage		mouse rat mouse mouse	not specified OECD Guideline 488 (In Vivo Transgenic Cell Gene Mutation Assays) not specified not specified

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Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Talc 14807-96-6	NOAEL=100 mg/kg	oral: feed	101 d7 d/w	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane 1675-54-3	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane 1675-54-3	NOAEL=100 mg/kg	dermal	13 w3 times/w	mouse	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Section 12. Ecological information

LOCTITE EA 3463 METAL MAGIC STEEL known as F/M METAL MAGIC STEEL STICK 113 $\,$

 $\textbf{General ecological information:} \qquad \qquad \text{Do not empty into drains / surface water / ground water.}$

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Talc 14807-96-6	LC50	Toxicity > Water solubility	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute
Glass, oxide, chemicals 65997-17-3	LC50	> 1,000 mg/l	Fish	96 h	not specified	Toxicity Test) OECD Guideline 203 (Fish, Acute
Glass, oxide, chemicals 65997-17-3	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Glass, oxide, chemicals 65997-17-3	EC50	> 1,000 mg/l	Algae	72 h	not specified	Test) OECD Guideline 201 (Alga, Growth Inhibition Test)
Glass, oxide, chemicals 65997-17-3	EC0	> 1,000 mg/l	Bacteria		not specified	not specified
bis-[4-(2,3- epoxipropoxi)phenyl]propane 1675-54-3	LC50	1.2 mg/l	Fish	96 h	Oncorhynchus mykiss	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates
bis-[4-(2,3- epoxipropoxi)phenyl]propane	EC50	2.7 mg/l	Daphnia	48 h	Daphnia magna	and Amphibians) other guideline:
bis-[4-(2,3-epoxipropoxi)phenyl]propane	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	other guideline:
bis-[4-(2,3-epoxipropoxi)phenyl]propane	NOEC	4.2 mg/l	Algae	72 h	Scenedesmus capricornutum	other guideline:
1675-54-3 bis-[4-(2,3- epoxipropoxi)phenyl]propane 1675-54-3	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
Poly[oxy(methyl-1,2- ethanediyl)], a-hydro-w- hydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1), 2-hydroxy- 3-mercaptopropyl ether	LC50	87 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	EC50	12 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Poly[oxy(methyl-1,2- ethanediyl)], a-hydro-w- hydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1), 2-hydroxy- 3-mercaptopropyl ether	EC50	> 733 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
72244-98-5 Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	NOEC	338 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Poly[oxy(methyl-1,2- ethanediyl)], a-hydro-w- hydroxy-, ether with 2,2-	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration

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bis(hydroxymethyl)-1,3-	I	1	1	Inhibition Test)
propanediol (4:1), 2-hydroxy-				
3-mercaptopropyl ether				
72244-98-5				

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
bis-[4-(2,3- epoxipropoxi)phenyl]propane 1675-54-3	not inherently biodegradable	not specified	12 %	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
bis-[4-(2,3- epoxipropoxi)phenyl]propane 1675-54-3	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Poly[oxy(methyl-1,2- ethanediyl)], a-hydro-w- hydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3- propanediol (4:1), 2-hydroxy- 3-mercaptopropyl ether 72244-98-5	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Talc	-9.4				25 °C	QSAR (Quantitative
14807-96-6						Structure Activity
						Relationship)
bis-[4-(2,3-	> 2.64 -				25 °C	OECD Guideline 117
epoxipropoxi)phenyl]propane	3.78					(Partition Coefficient (n-
1675-54-3						octanol / water), HPLC
						Method)

Section 13. Disposal considerations

Waste disposal of product: Collection and delivery to recycling enterprise or other registered elimination institution.

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: Not classified as Dangerous Goods according to the criteria of the

Australian Code for the Transport of Dangerous Goods by Road and

Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Not dangerous goods

Section 15. Regulatory information

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AIIC:

All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.

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

AIIC - Australian Inventory of Industrial Chemicals (AIIC) AICIS - Australian Industrial Chemicals Introduction Scheme

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

Date of previous issue: 12.01.2021

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.

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