

Safety Data Sheet

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LOCTITE MR GS1 GASKET SEALANT known as LOCTITE
GASKET SEAL NO.1 85G

SDS No. : 230520

V001.3

Date of issue: 19.10.2021

Section 1. Identification of the substance/preparation and of the company/undertaking**Product name:** LOCTITE MR GS1 GASKET SEALANT known as LOCTITE GASKET SEAL NO.1
85G**Intended use:** Sealant**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:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Serious eye irritation	Category 2A	
Serious eye irritation	Category 1	
Skin irritation	Category 2	
Skin sensitizer	Category 1	
Respiratory sensitizer	Category 1	
Carcinogenicity	Category 1A	Inhalation

Hazard pictogram:**Signal word:** Danger

Hazard statement(s):	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H350 May cause cancer.
Precautionary Statement(s):	
Prevention:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves, eye protection, and face protection. P281 Use personal protective equipment as required.
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. P308+P313 IF exposed or concerned: Get medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Storage:	P405 Store locked up.
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

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Kaolin	1332-58-7	30- < 60 %
rosin	8050-09-7	10- < 30 %
Methyl acetate	79-20-9	10- < 20 %
Titanium dioxide	13463-67-7	< 10 %
Quartz (SiO ₂), <1% respirable	14808-60-7	0.1- < 1 %

Section 4. First aid measures

Ingestion:	Rinse mouth, do not induce vomiting, consult a doctor.
Skin:	Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Eye wash Normal washroom facilities

Medical attention and special treatment: Treat symptomatically.

Section 5. Fire fighting measures

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

Decomposition products in case of fire: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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

Section 6. Accidental release measures

Personal precautions: See advice in section 8
Avoid contact with skin and eyes.
Ensure adequate ventilation.

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
Avoid breathing vapors or mists of this product.

Conditions for safe storage: Keep container tightly sealed.
Store in a cool, dry, well-ventilated area.
Temperatures between + 5 °C and + 35 °C

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)
KAOLIN 1332-58-7	Inhalable dust.		10				
ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS FORMALDEHYDE) 8050-09-7			0.1				
METHYL ACETATE 79-20-9						250	757
METHYL ACETATE 79-20-9		200	606				
TITANIUM DIOXIDE 13463-67-7	Inhalable dust.		10				

SILICA, CRYSTALLINE: QUARTZ (RESPIRABLE DUST) 14808-60-7	Respirable dust.		0.05				
QUARTZ (RESPIRABLE DUST) 14808-60-7	Respirable dust.		0.05				

- Engineering controls:** Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
- Eye protection:** Wear chemical goggles.
- Skin protection:** Use of protective coveralls and long sleeves is recommended. Recommended gloves include butyl rubber and neoprene. 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-brown
Paste
- Odor:** Ester-like
- Specific gravity:** 1.6
- Flash point:** Product is a solid. (ASTM D 4359)
- 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:** Nitric acid.
Strong oxidizing agents.
Amines.
Ammonia.
Sulfuric acid.
Strong acids.
- Hazardous decomposition products:** In case of fire toxic gases can be released.
Oxides of carbon.
- Hazardous polymerization:** Will not occur.

Section 11. Toxicological information

Health Effects:**Ingestion:**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin:

Irritating to skin.

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

May cause skin sensitization.

Eyes:

Causes serious eye damage.

Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation:

Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Vapours may cause drowsiness and dizziness.

R42 May cause sensitization by inhalation.

**Aggravated med.
condition:**

Pre-existing skin disorders.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Kaolin 1332-58-7	LD50	> 2,000 mg/kg	oral	4 h	rat	OECD Guideline 401 (Acute Oral Toxicity)
	LC0	9 mg/l	inhalation		rat	not specified
	LC50	> 9 mg/l	inhalation	4 h	rat	not specified
	LD50	> 5,000 mg/kg	dermal		rat	not specified
rosin 8050-09-7	LD50	2,800 mg/kg	oral		rat	not specified
	LD50	> 2,000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Methyl acetate 79-20-9	LD50	6,482 mg/kg	oral	4 h	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
	LC50	> 49.2 mg/l	inhalation		rabbit	not specified
	LD50	> 2,000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Titanium dioxide 13463-67-7	LD50	> 5,000 mg/kg	oral	4 h	rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
	LC50	> 6.82 mg/l	inhalation		rat	not specified
	LD50	>= 10,000 mg/kg	dermal		hamster	not specified
Quartz (SiO ₂), <1% respirable 14808-60-7	LD50	> 5,050 mg/kg	oral		rat	not specified
	LD50	> 2,000 mg/kg	dermal		not specified	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
rosin 8050-09-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Methyl acetate 79-20-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
rosin 8050-09-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Methyl acetate 79-20-9	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Methyl acetate 79-20-9	not sensitising	Skin sensitisation	human	Weight of evidence
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to 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
rosin 8050-09-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methyl acetate 79-20-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Methyl acetate 79-20-9	negative	inhalation		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Titanium dioxide 13463-67-7	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 with and 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)
Titanium dioxide 13463-67-7	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Kaolin 1332-58-7	NOAEL=5000 ppm	oral: feed	90 dayscontinuous	rat	Henkel Method
Kaolin 1332-58-7	LOAEL= \leq 10000 ppm	oral: feed	90 dayscontinuous	rat	Henkel Method
Methyl acetate 79-20-9	NOAEL=350 ppm	inhalation: aerosol	28 d6 h/d, 5 d/w	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
Titanium dioxide 13463-67-7	NOAEL=1,000 mg/kg	oral: gavage	90 ddaily	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.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Kaolin 1332-58-7	LC50	Toxicity > Water solubility	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Kaolin 1332-58-7	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Kaolin 1332-58-7	EC50	Toxicity > Water solubility	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test) not specified
Kaolin 1332-58-7	EC0	1,000 mg/l	Bacteria	30 min		
rosin 8050-09-7	LC50	Toxicity > Water solubility	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
rosin 8050-09-7	EL50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
rosin 8050-09-7	EL50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	NOELR	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
rosin 8050-09-7	EC20	Toxicity > Water solubility	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Methyl acetate 79-20-9	LC50	250 - 350 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl acetate 79-20-9	EC50	1,026.7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Methyl acetate 79-20-9	EC50	> 120 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl acetate 79-20-9	NOEC	120 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Methyl acetate 79-20-9	EC10	1,830 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Titanium dioxide 13463-67-7	LC50	Toxicity > Water solubility	Fish	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	EC0	Toxicity > Water solubility	Bacteria	24 h	Pseudomonas fluorescens	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)
Quartz (SiO2), <1% respirable	LC50	> 1,000 mg/l	Fish	96 h	not specified	OECD Guideline

14808-60-7 Quartz (SiO ₂), <1% respirable 14808-60-7	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	203 (Fish, Acute Toxicity Test) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Quartz (SiO ₂), <1% respirable 14808-60-7	EC50	> 1,000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quartz (SiO ₂), <1% respirable 14808-60-7	EC0	> 1,000 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
rosin 8050-09-7	readily biodegradable	aerobic	71 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Methyl acetate 79-20-9	readily biodegradable	aerobic	70 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Methyl acetate 79-20-9	inherently biodegradable	aerobic	> 95 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
rosin 8050-09-7	> 3 - 6.2					OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
Methyl acetate 79-20-9	0.18					other guideline:

Section 13. Disposal considerations

- Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution.
- Recommended cleanser:** Suitable organic solvents:
- 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

SUSMP Poisons Schedule None

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
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: 19.10.2016

Disclaimer:

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