Safety Data Sheet

LOCTITE SF 790 IND.CLEANING known as 790 CHISEL GASKET REM AERO 510G

SDS No. : 153698
V001.3
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE SF 790 IND.CLEANING known as 790 CHISEL GASKET REM AERO 510G

Intended use: Cleaner

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 aerosols	Category 2	
Skin irritation	Category 2	
Serious eye irritation	Category 2A	
Germ cell mutagenicity	Category 1B	
Carcinogenicity	Category 1A	
Target Organ Systemic Toxicant - Single exposure	Category 2	Central nervous system optic nerve
Target Organ Systemic Toxicant - Single exposure	Category 3	Central nervous system
Acute hazards to the aquatic environment	Category 3	

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H223 Flammable aerosol.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H340 May cause genetic defects.
H350 May cause cancer.
H371 May cause damage to organs.
H402 Harmful to aquatic life.

Precautionary Statement(s):

Prevention:
P201 Obtain special instructions before use.
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.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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.
P281 Use personal protective equipment as required.

Response:
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
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.

Storage:
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

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).

Section 3. Composition / information on ingredients

General chemical description: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
dichloromethane	75-09-2	60- < 100 %
Petroleum gases, liquified, sweetened	68476-86-8	10- < 30 %
methanol	67-56-1	1- < 10 %
non hazardous ingredients~		< 10 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Get immediate medical attention.
Skin:	Immediately flush skin with plenty of water (using soap, if available). Seek medical advice.
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. Keep warm and in a quiet place. Seek medical advice.
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. Water Fog
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapors. Irritating organic vapours. Phosgene. Hydrogen chloride. Oxides of carbon.
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. Explosive rupture is possible.
Special protective equipment for fire-fighters:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Wear full protective clothing.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Avoid contact with skin and eyes. Wear impervious gloves and chemical splash goggles. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Wear appropriate personal protective equipment. Ventilate area. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Absorb the spilled material with an inert absorbent (nonflammable) material. Store in a closed container until ready for disposal.

Section 7. Handling and storage

Precautions for safe handling: Keep away from heat, spark and flame.
Ensure adequate ventilation.
Wear suitable protective clothing, safety glasses and gloves.

Conditions for safe storage: Do not store or use near heat, spark, open flame or other sources of ignition.
Do not puncture, incinerate, or expose to temperatures above 48.9 °C (120 °F).
Store in a cool, dry place.

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)
METHYLENE CHLORIDE 75-09-2		50	174				
METHYL ALCOHOL 67-56-1		200	262				
METHYL ALCOHOL 67-56-1						250	328

Engineering controls: Use only in well ventilated areas.
Use local exhaust ventilation if the potential for airborne exposure exists.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Wear protective equipment.
The use of polyvinyl alcohol (PVA) gloves is recommended.
Protective clothing that covers arms and legs.
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: grey, to, Off white
Aerosol
Odor: Sharp, Solvent
Specific gravity: 0.789
Flash point: < 5 °C (< 41 °F)
Flammability (solid, gas): Highly flammable.
Lower explosive limit: 1.5 %(V)
Upper explosive limit: 9.5 %(V)
Solubility in water: Slightly soluble
VOC content: 30 % 237 g/l

Section 10. Stability and reactivity

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

Incompatible materials: Strong oxidizing agents.
Potassium.
Strong alkalis.
Sodium.
Reactive metals.

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

Hydrogen chloride.
Oxides of carbon.
Irritating organic vapours.
Phosgene.

Hazardous polymerization: Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion: Harmful if swallowed.
Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin: This product is irritating to the skin.
Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Eyes: Causes serious eye irritation.
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Inhalation: Vapours may cause drowsiness and dizziness.
Inhalation of vapors may cause moderate to severe respiratory tract irritation.

Chronic effects: Studies on rodents have suggested that an ingredient in this product, when fed at high levels in the diet, may have cancer-causing potential.

dichloromethane 75-09-2: The tumour risk cannot yet be evaluated conclusively, low tumour risk for the liver.

methanol 67-56-1: Neurological symptoms; irritation to the nasal mucous membranes through exposure to higher vapor concentrations; headaches, blurred vision and nausea; damage to the skin due to repeated contact; prenatal toxic effects were seen in rats and mice.

Carcinogenicity: Category 1A (Carcinogen), May cause cancer.

Mutagenicity: Category 1B (Mutagen), This product contains an ingredient which has been associated with mutagenicity effects.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
dichloromethane 75-09-2	LD50 LC50 LD50	2,120 mg/kg 86 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat mouse rat	not specified not specified OECD Guideline 402 (Acute Dermal Toxicity)
methanol 67-56-1	Acute toxicity estimate (ATE)	300 mg/kg	oral			Expert judgement

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
dichloromethane 75-09-2	irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
methanol 67-56-1	not irritating	20 h	rabbit	BASF Test

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
dichloromethane 75-09-2	irritating		rabbit	not specified
methanol 67-56-1	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
dichloromethane 75-09-2	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
methanol 67-56-1	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
dichloromethane 75-09-2	positive positive	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
dichloromethane 75-09-2	negative	oral: gavage		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
methanol 67-56-1	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian cell micronucleus test mammalian cell gene mutation assay	with and without without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) not specified equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
methanol 67-56-1	negative	intraperitoneal		mouse	equivalent or similar to 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
dichloromethane 75-09-2	NOAEL=6 mg/kg	oral: drinking water	104 wdaily	rat	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
methanol 67-56-1	NOAEL=6.63 mg/l	inhalation	4 weeks6 h/d, 5 d/w	rat	not specified
methanol 67-56-1	NOAEL=0.13 mg/l	inhalation	12 m20 h/d	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Section 12. Ecological information

General ecological information: 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
dichloromethane 75-09-2	LC50	193 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
dichloromethane 75-09-2	NOEC	83 mg/l	Fish	28 d	Pimephales promelas	other guideline:
dichloromethane 75-09-2	EC50	27 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
dichloromethane 75-09-2	EC50	> 660 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
dichloromethane 75-09-2	EC50	2,590 mg/l	Bacteria	40 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
methanol 67-56-1	LC50	15,400 mg/l	Fish	96 h	Lepomis macrochirus	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
methanol 67-56-1	NOEC	7,900 mg/l	Fish	200 h	Oryzias latipes	OECD Guideline 210 (fish early lite stage toxicity test)
methanol 67-56-1	EC50	18,260 mg/l	Daphnia	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
methanol 67-56-1	EC50	22,000 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methanol 67-56-1	IC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
dichloromethane 75-09-2	readily biodegradable	aerobic	68 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
methanol 67-56-1	readily biodegradable	aerobic	82 - 92 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

dichloromethane 75-09-2		2 - 40	42 d	Cyprinus carpio	25 °C	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
dichloromethane 75-09-2	1.25				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
methanol 67-56-1	-0.77					other guideline:

Section 13. Disposal considerations

Waste disposal of product: Do not puncture or incinerate pressurized containers.
Dispose of according to regulations.

Disposal for uncleaned package: Disposal must be made according to official regulations.

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.: 1950
Proper shipping name: AEROSOLS
Class or division: 2.1 (6.1)
Packing group:
Emergency information: Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.: 1950
Proper shipping name: AEROSOLS (Methylene chloride)
Class or division: 2.1 (6.1)
Packing group:
EmS: F-D ,S-U
Seawater pollutant: -

Air transport IATA:

UN no.: 1950
Proper shipping name: Aerosols, flammable, containing substances in Division 6.1, Packing Group III
Class or division: 2.1 (6.1)
Packing group:
Packing instructions (passenger) 203
Packing instructions (cargo) 203

`Section 15. Regulatory information

SUSMP Poisons Schedule 5

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

Section 16. Other information

Abbreviations/acronyms:

ADGC - Australian Dangerous Goods Code
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
OECD: Organization for Economic Cooperation and Development
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
STEL - Short term exposure limit
TWA - Time weighted average

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Disclaimer:

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