



Safety Data Sheet

LOCTITE SF 754 EXTEND RUST TREATMENT known as
Extend Rust Treatment

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

Product name: LOCTITE SF 754 EXTEND RUST TREATMENT known as Extend Rust Treatment

Intended use: Rust preventor

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
Skin sensitizer

Hazard Category
Category 1

Hazard pictogram:



Signal word:

Warning

Hazard statement(s):

H317 May cause an allergic skin reaction.

Precautionary Statement(s):

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.

Response:

P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing 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

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Propane-1,2-diol	57-55-6	< 10 %
2-butoxyethanol	111-76-2	< 10 %
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone	55965-84-9	< 1 %
non hazardous ingredients~		80- < 100 %

Section 4. First aid measures

Ingestion: Do not induce vomiting.
Have victim rinse mouth thoroughly with water.
In case of adverse health effects seek medical advice.

Skin: Remove contaminated clothing and footwear.
Immediately wash skin thoroughly with soap and water.
In case of adverse health effects seek medical advice.
Wash clothing before reuse.

Eyes: Rinse with plenty of water. In case of adverse health effects, 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.

Section 5. Fire fighting measures

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Combustion behaviour: In case of fire toxic gases can be 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.
Oxides of sulfur.

Special protective equipment for fire-fighters: Wear full protective clothing.
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

- Personal precautions:** See advice in section 8
Avoid contact with skin and eyes.
Keep unprotected persons away.
Ensure adequate ventilation.
- Environmental precautions:** Do not let product enter drains.
- Clean-up methods:** Wipe up with adsorbent material (e.g. cloth, fleece).
Ensure adequate ventilation.
Store in a partly filled, closed container until disposal.

Section 7. Handling and storage

- Precautions for safe handling:** Avoid skin and eye contact.
Do not wear contact lenses.
Wash thoroughly after handling.
Keep out of the reach of children.
- Conditions for safe storage:** Protect against contamination.
Keep container tightly sealed.
Store in original container until ready to use.

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)
BARIUM SULPHATE 7727-43-7	Inhalable dust.		10				
PROPANE-1,2-DIOL TOTAL: (VAPOUR & PARTICULATES) 57-55-6	Total vapour and particulates.	150	474				
PROPANE-1,2-DIOL: PARTICULATES ONLY 57-55-6	Particulate.		10				
2-BUTOXYETHANOL 111-76-2						50	242
2-BUTOXYETHANOL 111-76-2		20	96.9				
SILICA, AMORPHOUS: FUMED SILICA (RESPIRABLE DUST) 112945-52-5	Respirable dust.		2				
FUMED SILICA (RESPIRABLE DUST) 112945-52-5	Respirable dust.		2				

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
Eye protection:	Wear protective glasses. Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Eyewash fountains and emergency showers are required.
Skin protection:	Wear suitable protective clothing. The use of chemical resistant gloves such as Nitrile 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. Consistent with general hygienic practice for any material, skin contact should be minimized.
Respiratory protection:	Use only in well-ventilated areas. 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:	white liquid
Odor:	mild
pH:	1.95
Specific gravity:	1.202
Flash point:	> 93 °C (> 199.4 °F)
Vapor pressure:	24 mbar
(; 20 °C (68 °F))	
Vapor density:	1.2
Density:	1.202 g/cm ³
Solubility in water:	Soluble

Section 10. Stability and reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Extremes of temperature.
Incompatible materials:	Strong oxidizing agents. Acids. Reaction with strong bases
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapors. carbon monoxide Carbon dioxide.
Hazardous polymerization:	Will not occur.

Section 11. Toxicological information

Health Effects:

Ingestion:

Not expected under normal conditions of use.
Gastric disturbances.

Skin:

Allergic skin reaction.

Eyes:

May cause eye irritation.

Inhalation:

Inhalation of product mist may cause irritation of the nose, throat, and respiratory tract.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Propane-1,2-diol 57-55-6	LD50 LC50 LD50	22,000 mg/kg > 317.042 mg/l > 2,000 mg/kg	oral inhalation dermal	2 h	rat rabbit rabbit	not specified not specified not specified
2-butoxyethanol 111-76-2	LD50	1,746 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	LD50 LC50 LD50	66 mg/kg 0.171 mg/l 87.12 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Propane-1,2-diol 57-55-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-butoxyethanol 111-76-2	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Propane-1,2-diol 57-55-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-butoxyethanol 111-76-2	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	Category 1 (irreversible effects on the eye)		rabbit	not specified

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Propane-1,2-diol 57-55-6	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
2-butoxyethanol 111-76-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Propane-1,2-diol 57-55-6	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	without with and without		Ames Test OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane-1,2-diol 57-55-6	negative negative negative	oral: gavage intraperitoneal oral: gavage		rat mouse rat	not specified not specified not specified
2-butoxyethanol 111-76-2	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)
2-butoxyethanol 111-76-2	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	ambiguous positive positive negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without with and without with and without not applicable		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) EPA OPP 84-2 (Mutagenicity Testing) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	negative negative negative negative negative	oral: gavage oral: gavage oral: feed oral: gavage oral: gavage		mouse mouse Drosophila melanogaster rat rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) OECD Guideline 477 (Genetic Toxicology: Sex-linked Recessive Lethal Test in Drosophila melanogaster) OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) EPA OPP 84-2 (Mutagenicity Testing)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Propane-1,2-diol 57-55-6	NOAEL=1,700 mg/kg	oral: feed	2 yearsdaily	rat	not specified
Propane-1,2-diol 57-55-6	NOAEL=1000 mg/m3	inhalation	90 d6 h/d, 5 d/w	rat	not specified
2-butoxyethanol 111-76-2	NOAEL=0.121 mg/l	inhalation	42 or 90 days6 hours/day, 5 days/week	rat	not specified
2-butoxyethanol 111-76-2	NOAEL=< 69 mg/kg	oral: drinking water	90 dcontinuous	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	NOAEL=16.3 mg/kg	oral: drinking water	90 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	NOAEL=0.34 mg/m3	inhalation: aerosol	90 d6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Mixture, 3(2H)- Isothiazolone, 5-chloro-2- methyl-, mixt. with 2- methyl-3(2H)- isothiazolone 55965-84-9	NOAEL=2.625 mg/kg	dermal	90 d6 h/d	rat	EPA OPP 82-3 (Subchronic Dermal Toxicity 90 Days)

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
Propane-1,2-diol 57-55-6	LC50	> 10,000 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Propane-1,2-diol 57-55-6	EC50	18,340 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
Propane-1,2-diol 57-55-6	EC50	24,200 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	NOEC	15,000 mg/l	Algae	14 d	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Propane-1,2-diol 57-55-6	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2-butoxyethanol 111-76-2	LC50	1,474 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-butoxyethanol 111-76-2	NOEC	> 100 mg/l	Fish	21 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-butoxyethanol 111-76-2	EC50	1,550 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-butoxyethanol 111-76-2	EC50	1,840 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butoxyethanol 111-76-2	NOEC	286 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butoxyethanol 111-76-2	EC0	1,000 mg/l	Bacteria	30 min		not specified
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	LC50	0.22 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	NOEC	0.098 mg/l	Fish	28 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	0.12 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	0.0052 mg/l	Algae	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	NOEC	0.00064 mg/l	Algae	48 h	Skeletonema costatum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC20	0.97 mg/l	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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Propane-1,2-diol 57-55-6	not inherently biodegradable	aerobic	60 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Propane-1,2-diol 57-55-6	readily biodegradable	aerobic	> 81.7 - 100 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
2-butoxyethanol 111-76-2	readily biodegradable	aerobic	73 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	inherently biodegradable	aerobic	100 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	readily biodegradable	aerobic	> 60 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Propane-1,2-diol 57-55-6	-1.07				20.5 °C	EU Method A.8 (Partition Coefficient)
2-butoxyethanol 111-76-2	0.81				25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9		3.6		calculation		QSAR (Quantitative Structure Activity Relationship)
Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone 55965-84-9	-0.71 - 0.75				20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Section 13. Disposal considerations

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

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**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

