



# SAFETY DATA SHEET

**Simflex 1 Plus**  
Revision Number 1.02

Revision date 30-May-2022  
Supersedes Date: 08-May-2022

## **Section 1: Identification: Product identifier and chemical identity**

### **Product identifier**

**Product Name** Simflex 1 Plus

**Product Code(s)**  
30619339  
30619339; 30619340

### **Other means of identification**

**Pure substance/mixture** Mixture

### **Recommended use of the chemical and restrictions on use**

**Recommended use** Adhesives and/or sealants

**Uses advised against** No information available

### **Details of manufacturer or importer**

**Supplier**  
Simseal Pty Ltd  
Unit 8/33-43 Meakin  
Road Meadowbrook  
QLD, 4131  
Australia  
Tel: 1300 SILICONE

**Manufacturer**  
Bostik Australia Pty Ltd  
51-71 High Street,  
Thomastown Victoria  
Australia  
Tel: 613 9279-9333  
Fax: 613 9279-9342

**ABN:** 75 861 683 120

**ABN:** 79 003 893 838

**E-mail address** info@simseal.com.au

### **Emergency telephone number**

Emergency telephone number 24-hr Emergency: 1800 033 111

## **Section 2: Hazard(s) identification**

### **GHS Classification**

Not classified

### **Label elements**

### **Hazard statements**

Not classified

### **Other hazards which do not result in classification**

Causes mild skin irritation.

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## Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

### Section 3: Composition and information on ingredients, in accordance with Schedule 8

#### Substance

Not applicable

#### Mixture

Chemical name	CAS No	Weight-%
Benzenesulfonyl isocyanate, 4-methyl-	4083-64-1	<0.01
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	82919-37-7	0 - <10
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	0 - <10
Toluene-2,4-diisocyanate	584-84-9	<0.01
Toluene 2,6-diisocyanate	91-08-7	<0.01
Glycidoxypropyltrimethoxysilane	2530-83-8	0 - <10
Non-hazardous ingredients	Proprietary	Balance

### Section 4: First aid measures

**Emergency telephone number** Poisons Information Center, Australia: 13 11 26  
Poisons Information Center, New Zealand: 0800 764 766

#### Description of first aid measures

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention immediately if symptoms occur. Rinse mouth.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Prolonged contact may cause redness and irritation.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water.

### Section 5: Firefighting measures

#### Suitable Extinguishing Media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

#### Specific hazards arising from the chemical

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**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** Carbon oxides. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrochloric Acid.

## **Special protective actions for fire-fighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **Section 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### **Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

### **Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **Section 7: Handling and storage, including how the chemical may be safely used**

### **Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**Recommended storage temperature** Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

## **Section 8: Exposure controls and personal protection**

### **Control parameters**

**Exposure Limits** This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

Chemical name	Australia
Toluene-2,4-diisocyanate 584-84-9	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup>

### **Biological occupational exposure limits**

### **Appropriate engineering controls**

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**Engineering controls** Showers, eyewash stations, and ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

**Respiratory protection** Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapors filter conforming to EN 14387.

**Environmental exposure controls** No information available.

## **Section 9: Physical and chemical properties**

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Paste
<b>Color</b>	Gray
<b>Odor</b>	Slight
<b>Odor threshold</b>	No information available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>pH</b>	No data available	
<b>pH (as aqueous solution)</b>	No data available	
<b>Melting point / freezing point</b>	No data available	
<b>Initial boiling point and boiling range</b>	No data available	
<b>Flash point</b>	> 100 °C	
<b>Evaporation rate</b>	No data available	
<b>Flammability</b>	No data available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	
<b>Relative vapor density</b>	No data available	
<b>Relative density</b>	1.3	
<b>Water solubility</b>	Insoluble in water	Product cures with moisture
<b>Solubility(ies)</b>	No data available	
<b>Partition coefficient</b>	No data available	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Kinematic viscosity</b>	No data available	
<b>Dynamic viscosity</b>	No data available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

### Other information

<b>Solid content (%)</b>	No information available	
<b>Liquid Density</b>	No information available	
<b>VOC Content (%)</b>	No information available	No information available

## **Section 10: Stability and reactivity**

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## Reactivity

Reactivity No information available.

## Chemical stability

Stability Stable under normal conditions.

## Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

## Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

## Conditions to avoid

Conditions to avoid None known based on information supplied.

## Incompatible materials

Incompatible materials None known based on information supplied.

## Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **Section 11: Toxicological information**

### Acute toxicity

#### Information on likely routes of exposure

Inhalation Based on available data, the classification criteria are not met.

Eye contact Based on available data, the classification criteria are not met.

Skin contact Specific test data for the substance or mixture is not available. Causes mild skin irritation.

Ingestion Based on available data, the classification criteria are not met.

Symptoms Prolonged contact may cause redness and irritation.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal) 9,996.70

ATEmix (inhalation-vapor) 33.8616

ATEmix (inhalation-dust/mist) 19.825

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzenesulfonyl isocyanate, 4-methyl-	=2234 mg/kg (Rattus)	LD 50 (Rattus) > 2000 mg/kg OECD 402	>640 ppm (Rattus) 1 h
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	=2615 mg/kg (Rattus)	-	-

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Toluene-2,4-diisocyanate	=5800 mg/kg (Rattus)	> 16 mL/kg (Oryctolagus cuniculus)	=0.107 mg/L (Rattus) 4 h (vapour)
Glycidoxypropyltrimethoxysilane	=8025 mg/kg (Rattus)	= 4250 mg/kg (Oryctolagus cuniculus)	>5.3 mg/L (Rattus) 4 h

See section 16 for terms and abbreviations

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

### Skin corrosion/irritation

Classification based on data available for ingredients. Causes mild skin irritation.

Component Information					
Toluene-2,4-diisocyanate (584-84-9)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal	0.5 mL	24 hours	Erythema (skin redness) edema

### Serious eye damage/eye irritation

No information available.

Component Information					
Glycidoxypropyltrimethoxysilane (2530-83-8)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye			Eye Damage

### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

Component Information			
Toluene-2,4-diisocyanate (584-84-9)			
Method	Species	Exposure route	Results
Not available	Guinea pig	Dermal	sensitizing

Glycidoxypropyltrimethoxysilane (2530-83-8)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitization	Guinea pig	Dermal	No sensitization responses were observed

### Germ cell mutagenicity

No information available.

### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	Australia	European Union	IARC
Toluene-2,4-diisocyanate 584-84-9	Carc. 2	Carc. 2	Group 2B
Toluene 2,6-diisocyanate 91-08-7	Carc. 2	Carc. 2	Group 2B

Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Component Information
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Toluene-2,4-diisocyanate (584-84-9)		
Method	Species	Results
OECD 453	Rat	Carcinogenic

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	Based on available data, the classification criteria are not met.
<b>STOT - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	No information available.

## Section 12: Ecological information

### Ecotoxicity

#### Aquatic ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7	-	LC50: =0.97mg/L (96h, Lepomis macrochirus)	-	EC50: =20mg/L (24h, Daphnia magna)
Toluene-2,4-diisocyanate 584-84-9	-	LC50 (96h) =133 mg/L (Oncorhynchus mykiss) (OECD 203)	-	EC50 (48h) =12.5 mg/L Daphnia magna (OECD 202)
Glycidoxypropyltrimethoxysilane 2530-83-8	EC50 (96hr): 350 mg/l Pseudokirchneriella subcapitata	LC50 (96h) = 55 mg/L (Cyprinus carpio) OECD 203	-	EC50 (48h) =473 mg/L Daphnia magna

### Persistence and degradability

**Persistence and degradability** No information available.

#### Component Information

Toluene-2,4-diisocyanate (584-84-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0%	Not readily biodegradable

### Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

#### Component Information

Chemical name	Partition coefficient
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	0.6
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate 41556-26-7	0.37
Toluene-2,4-diisocyanate 584-84-9	3.43

### Mobility

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**Mobility in soil** No information available.

**Mobility** No information available.

**Other adverse effects**

**Other adverse effects** No information available.

**Section 13: Disposal considerations**

**Disposal methods**

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse empty containers.

**Section 14: Transport information**

**ADG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
No information available

**Section 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Australia**

See section 8 for national exposure control parameters

**Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)**

No poisons schedule number allocated

**National pollutant inventory**

Subject to reporting requirement

Chemical name	National pollutant inventory
Toluene-2,4-diisocyanate 584-84-9	10 tonne/yr Threshold category 1 20 MW Threshold category 2b total 60000 MWH Threshold category 2b total 1 tonne/h Threshold category 2a total 25 tonne/yr Threshold category 1a total 400 tonne/yr Threshold category 2a total 2000 tonne/yr Threshold category 2b total

**International Inventories**

**AIIC** Listed  
**NZIoC** Not Listed  
**ENCS** Not Listed  
**IECSC** Not Listed  
**KECL** Not Listed



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PICCS Not Listed

## Legend:

**AIIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

## International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## Europe

**Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)**

### SVHC: Substances of Very High Concern for Authorization:

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### 2015/863/EU - RoHS

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

## Section 16: Any other relevant information

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 30-May-2022

### Revision Note

\*\*\*Indicates updated data since last publication.

## Key or legend to abbreviations and acronyms used in the safety data sheet

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

### Section 11: TOXICOLOGICAL INFORMATION

LD50 (lethal dose)

### Section 12: Ecological information

EC50 (effective concentration)

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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**End of Safety Data Sheet**