

Selleys Silicone S301

Version Date of last issue: -

1.0 Date of first issue: 25.03.2015

SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product name : Selleys Silicone S301 (Black/White/Clear/Grey/Bronze)

Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

Manufacturer or supplier's details

Company : Selleys Pty Ltd

Address : 1 Gow Street,

Padstow NSW 2211

Australia

Telephone : (02) 9781 8777

Emergency telephone number : 1 800 033 111 (24 hours)

SECTION 2: Hazards identification

Classification of the hazardous chemical

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Precautionary statements : Prevention:

P271 Use only outdoors or in a well-ventilated area.

Other hazards which do not result in classification

None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture

Chemical nature : Silicone

Sealant

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Silicon dioxide	7631-86-9	>= 5 - < 10





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Distillates (petroleum), hydrotreated middle	64742-46-7	>= 1 -< 3
Octamethylcyclotetrasiloxane	556-67-2	< 1

SECTION 4: First aid measures

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

: None known.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: None known.

Physicochemical hazards arising from the chemical

Specific hazards during fire-: Exposure to combustion products may be a hazard to health.

fighting

Hazardous combustion prod-

ucts

 Carbon oxides Silicon oxides Formaldehyde

Special protective equipment and precautions for fire-fighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.





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> Specific extinguishing meth-: Use extinguishing measures that are appropriate to local cir-ods cumstances and the surrounding environment.

Use water spray to cool unopened containers. Remove undamaged containers from fire area if it

is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equip-ment recommendations.

Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant

spillages cannot be contained.

Methods and materials for containment and cleaning up Soak up with inert absorbent material.

For large spills, provide dyking or other appropriate contain-ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from

spill with suitable absor-bent.

Local or national regulations may apply to releases and dis - posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to

deter-mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Take care to prevent spills, waste and minimize release to the

environment.



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Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

SECTION 8: Exposure controls and personal protection

Control parameters

Components	CAS-No.		Control parame- ters / Permissible	Basis
		exposure)	concentration	
Silicon dioxide	7631-86-9	TWA	10 mg/m3	MY PEL
Distillates (petroleum), hy-	64742-46-7	TWA (Mist)	5 mg/m3	MY PEL
drotreated middle				
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	DCC OEL

Appropriate engineering

controls

: Processing may form hazardous compounds (see section

10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Individual protection measures, such as personal protective equipment

Eye/face protection : Wear the following personal protective equipment:

Safety glasses

Skin protection : Skin should be washed after contact.

Hand protection

Remarks : Wash hands before breaks and at the end of workday.

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapour type

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications

may require added precautions.

SECTION 9: Physical and chemical properties



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Appearance : paste

Colour : Black, White, Grey, Clear, Bronze

Odour : Acetic acid

Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : No data available

Relative density : 1.03

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

SECTION 10: Stability and reactivity



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> Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

tions

Possibility of hazardous reac- : Use at elevated temperatures may form highly hazardous

compounds.

Can react with strong oxidizing agents.

Acetic acid is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated

temperatures.

Conditions to avoid None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Formaldehyde

SECTION 11: Toxicological information

Information on likely routes of : Skin contact

exposure Inaestion

Eye contact

Acute toxicity

Not classified based on available information.

Components:

Silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral tox-

Remarks: Information taken from reference works and the

literature.

: LC50 (Rat): > 2.08 mg/l Acute inhalation toxicity

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Information taken from reference works and the

literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Information taken from reference works and the

literature.

Distillates (petroleum), hydrotreated middle:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg



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Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/m3

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Octamethylcyclotetrasiloxane:

Acute oral toxicity : LD50 (Rat): > 4,800 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: Based on test data

Acute inhalation toxicity : LC50 (Rat): 2975 ppm

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on test data

Acute dermal toxicity : LD50 (Rabbit): > 2.5 ml/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on test data

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Remarks: Based on data from similar materials

Components:

Silicon dioxide:

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

Distillates (petroleum), hydrotreated middle:

Assessment: Repeated exposure may cause skin dryness or cracking.

Octamethylcyclotetrasiloxane:

Species: Rabbit

Result: No skin irritation Remarks: Based on test data

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: No eye irritation

Remarks: Based on data from similar materials



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Components:

Silicon dioxide:

Result: No eye irritation

Remarks: Information taken from reference works and the literature.

Distillates (petroleum), hydrotreated middle:

Result: No eye irritation

Octamethylcyclotetrasiloxane:

Species: Rabbit Result: No eye irritation Remarks: Based on test data

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: Silicon dioxide:

Assessment: Does not cause skin sensitisation.

Test Type: Skin: test type not specified

Species: Guinea pig

Remarks: No known sensitising effect.

Information taken from reference works and the literature.

Distillates (petroleum), hydrotreated middle:

Test Type: Human repeat insult patch test (HRIPT)

Exposure routes: Skin contact

Result: negative

Octamethylcyclotetrasiloxane:

Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Remarks: Based on test data

Germ cell mutagenicity

Not classified based on available information.

Components:

Silicon dioxide:

Genotoxicity in vitro : Result: negative

Remarks: Information taken from reference works and the

literature.

Genotoxicity in vivo : Application Route: Ingestion

Result: negative

Remarks: Information taken from reference works and the

literature.



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Germ cell mutagenicity - : Animal testing did not show any mutagenic effects.

Assessment

Distillates (petroleum), hydrotreated middle:

Genotoxicity in vitro : Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Octamethylcyclotetrasiloxane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on test data

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)

Result: negative

Remarks: Based on test data

: Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on test data

: Test Type: In vitro sister chromatid exchange assay in mam-

malian cells Result: negative

Remarks: Based on test data

: Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro)

Result: negative

Remarks: Based on test data

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Rat

Application Route: inhalation (vapour) Result: negative Remarks: Based on test data

Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on test data

Germ cell mutagenicity - : Animal testing did not show any mutagenic effects.

Assessment

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.





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Components:

Octamethylcyclotetrasiloxane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat, male and female Application Route: inhalation (vapour)

Symptoms: Effects on fertility Remarks: Based on test data

Effects on foetal develop-

ment

: Test Type: Prenatal development toxicity study (teratogenicity)

Species: Rabbit

Application Route: inhalation (vapour)
Symptoms: No effects on foetal development

Remarks: Based on test data

Reproductive toxicity - As-

sessment

: Some evidence of adverse effects on sexual function and

fertility, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

Octamethylcyclotetrasiloxane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations

of 100 mg/kg bw or less.

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of

1 mg/l/6h/d or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations

of 200 mg/kg bw or less.

Repeated dose toxicity

Components:

Octamethylcyclotetrasiloxane:

Species: Rat

Application Route: Ingestion Remarks: Based on test data

Species: Rat

Application Route: inhalation (vapour)

Remarks: Based on test data

Species: Rabbit

Application Route: Skin contact Remarks: Based on test data

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Aspiration toxicity

Not classified based on available information.

Components:

Distillates (petroleum), hydrotreated middle:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Further information

Components:

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Based on the available information on its potential to cause harm to human health, Health Can-ada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health (http://www.ec.gc.ca/eseees/default.asp?lang=En&n=2481B508-1). Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

SECTION 12: Ecological information

Ecotoxicity

Components:

Distillates (petroleum), hydrotreated middle:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87,556 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 1,000

mg/l

Exposure time: 72 h

Toxicity to fish (Chronic toxic-

ity)

: NOELR: > 1,000 mg/l

Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOELR: 5 mg/l Exposure time: 21 d

: EC50: > 100 mg/l

Toxicity to bacteria Exposure time: 3 h

Octamethylcyclotetrasiloxane:

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> Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l

> > Exposure time: 96 h

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp.): > 0.015 mg/l Exposure time: 48 h

Remarks: No toxicity at the limit of solubility

Toxicity to algae EC50: > 0.022 mg/l

Exposure time: 96 h

Remarks: No toxicity at the limit of solubility

NOEC: 0.022 mg/l Exposure time: 96 h

Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxic-

NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044

mg/l Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other invertebrates

aquatic (Chron-ic toxicity)

NOEC (Daphnia magna (Water flea)): > 0.0079 mg/l Exposure time: 21 d

Remarks: No toxicity at the limit of solubility

Toxicity to bacteria : IC50: > 10.000 mg/l

Method: ISO 8192

Ecotoxicology Assessment

: May cause long lasting harmful effects to aquatic life. Chronic aquatic toxicity

Persistence and degradability

Components:

Distillates (petroleum), hydrotreated middle:

Biodegradability : Result: Inherently biodegradable.

Octamethylcyclotetrasiloxane:

Biodegradability : Result: Not readily biodegradable.

> Biodegradation: 3.7 % Exposure time: 28 d

Method: OECD Test Guideline 310

Stability in water : Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7

Method: OECD Test Guideline 111

Bioaccumulative potential

Components:

Octamethylcyclotetrasiloxane:

Partition coefficient: n-

octanol/water

: log Pow: 6.48 (25.1 °C)

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Mobility in soil

No data available

Other adverse effects

Components:

Octamethylcyclotetrasiloxane:

Results of PBT and vPvB assessment

: Remarks: Octamethylcyclotetrasiloxane (D4) meets the current REACh Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

SECTION 13: Disposal information

Disposal methods

Waste from residues : Disposal of waste to be in accordance with the Environmental

Quality (Scheduled Wastes) Regulations and other guidelines

issuance by DOE and/or local authorities.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14: Transport information

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.





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SECTION 15: Regulatory information

Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

The components of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified.

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

PICCS : All ingredients listed or exempt.

NZIoC : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16: Other information

Further information

Sources of key data used to compile the Safety Data

Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European

Chemicals Agen-cy, http://echa.europa.eu/

Date format : dd.mm.yyyy

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information pro-vided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, un-less specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS

material in the user's end