



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

Revision date: March 2022.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name RTV 65 Silicone Rubber

Product number 403-873

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Moulding Rubber

1.3. Details of the supplier of the safety data sheet

Manufacturer / Supplier PotteryCrafts Ltd / Tiranti
Campbell Road
Stoke
Stoke-on-Trent.
ST4 4ET
Tel 44 (0)1782 745000
sales@potteryCrafts.co.uk / Enquiries@tiranti.co.uk

1.4. Emergency telephone number

Emergency telephone +44(0) 1782 745000 Office Hours 08:30 – 16:30 hrs Mon-Friday.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

· **Results of PBT and vPvB assessment**

PBT:

540-97-6 Dodecamethylcyclhexasiloxane

vPvB:

540-97-6 Dodecamethylcyclhexasiloxane

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) STOT RE 1, H372	25-50%
CAS: 68855-54-9 EINECS: 272-489-0 Reg.nr.: 01-2119488518-22	Kieselguhr, soda ash flux-calcined Consisting of: 14808-60-7 Quartz (SiO ₂) (1-10%) STOT RE 2, H373	2.5-5%
CAS: 1314-13-2 EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.25-1%
CAS: 540-97-6 EINECS: 208-762-8 Reg.nr.: 01-2119517435-42-0001	Dodecamethylcyclhexasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	0.1-0.25%

· non dangerous ingredients Cas.Nr. : 70131-67-8 Polydimethylsiloxane, hydroxy terminated

· SVHC	
540-97-6	Dodecamethylcyclhexasiloxane

· Additional information:

Calcined diatomaceous earth: This ingredient does not lead to classification, due to the physical nature of the material is not given an inhalation risk.

Quartz: This ingredient does not lead to classification, due to the physical nature of the material is not given an inhalation risk.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

If swallowed, rinse mouth with water (only if the person is conscious).

Do not induce vomiting; call for medical help immediately.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use an inert extinguisher such as foam or carbon dioxide. Fight larger fires with water spray or alcohol resistant foam



5.2. Special hazards arising from the substance or mixture

Specific hazards Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide(CO)

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product. Wear protective clothing

6.2. Environmental precautions Contain spill safely, if possible. Prevent from entering drains, watercourses and sewers.

6.3. Methods and material for containment and cleaning up

Contain spill with inert material such as sand, earth or vermiculite. Collect and dispose of safely

6.4. Reference to other sections Refer to section 8. And 13. No dangerous substances are released.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original containers, tightly sealed. Keep containers away from any incompatible materials, see section 10 for details. Storage temperature 15-25°C

Information about storage in one common facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis. Store away from foodstuffs

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure Controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

14808-60-7 Quartz (SiO₂)

<i>BOELV (European Union)</i>	Long-term value: 0.1* mg/m ³ *respirable fraction
<i>MAK (Germany)</i>	alveolengängige Fraktion
<i>MAK (Austria)</i>	Long-term value: 0.05 A mg/m ³ siehe Anhang III C

· DNELs

68855-54-9 Kieselguhr, soda ash flux-calcined

<i>Oral</i>	<i>DNEL Long-term - systemic effects</i>	18.7 mg/kg bw/day (General population)
<i>Inhalative</i>	<i>DNEL Long-term - systemic effects</i>	0.08 mg/m ³ (General population) 0.33 mg/m ³ (workers)

1314-13-2 zinc oxide

<i>Oral</i>	<i>DNEL Long-term - systemic effects</i>	0.83 mg/kg bw/day (General population)
<i>Dermal</i>	<i>DNEL Long-term - systemic effects</i>	83 mg/kg bw/day (General population) 83 mg/kg bw/day (workers)
<i>Inhalative</i>	<i>DNEL local effects - long term exposure</i>	0.5 mg/m ³ (workers)
	<i>DNEL Long-term - systemic effects</i>	2.5 mg/m ³ (General population) 5 mg/m ³ (workers)

540-97-6 Dodecamethylcyclohexasiloxane

<i>Oral</i>	<i>DNEL Long-term - systemic effects</i>	1.7 mg/kg (General population)
	<i>DNEL Short-term exposure - systemic effects</i>	1.7 mg/kg (General population)
<i>Inhalative</i>	<i>DNEL local effects - long term exposure</i>	0.3 mg/m ³ (General population) 1.22 mg/m ³ (workers)
	<i>DNEL Long-term - systemic effects</i>	2.7 mg/m ³ (General population) 11 mg/m ³ (workers)
	<i>DNEL local effect - short term</i>	1.5 mg/m ³ (General population) 6.1 mg/m ³ (workers)

· PNECs

68855-54-9 Kieselguhr, soda ash flux-calcined

<i>PNEC STP</i>	100 mg/L (sewage plant)
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1314-13-2 zinc oxide

<i>PNEC STP</i>	0.1 mg/L (sewage plant)
<i>PNEC aqua</i>	20.6 ug/L (freshwater)

	<i>6.1 ug/L (marine water)</i>
<i>PNEC sediment</i>	<i>117.8 mg/kg (freshwater- sediment)</i>
	<i>56.5 mg/kg (seawater - sediment)</i>
<i>PNEC soil</i>	<i>35.6 mg/kg (soil (Boden))</i>
540-97-6 Dodecamethylcyclohexasiloxane	
<i>PNEC STP</i>	<i>1 mg/L (sewage plant)</i>
<i>PNEC sediment</i>	<i>13 mg/kg (freshwater- sediment)</i>
	<i>1.3 mg/kg (seawater - sediment)</i>
<i>PNEC soil</i>	<i>3.77 mg/kg (soil (Boden))</i>

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Properties	Value
General Information	
· Physical state	Fluid
· Colour:	Red-brown
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	>200 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>161 °C
· Decomposition temperature:	Not determined.

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· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	10,000 mPas
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	100 hPa
· Density and/or relative density	
· Density at 20 °C:	1.45 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

9.2 Other information

Appearance:

· Form: Viscous

Important information on protection of health and environment, and on safety.

· Auto-ignition temperature:	Product is not self-igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· VOC (EC)	0.0 g/l
· Change in condition	
· Evaporation rate	Not determined.

Information with regard to physical hazard classes

· Explosives	Void
	Void
· Flammable gases	Void
	Void
· Aerosols	Void
	Void
Oxidising gases	Void
	Void
· Gases under pressure	Void
	Void
· Flammable liquids	Void
	Void
· Flammable solids	Void
	Void
· Self-reactive substances and mixtures	Void
	Void
· Pyrophoric liquids	Void
	Void
· Pyrophoric solids	Void
	Void
· Self-heating substances and mixtures	Void
	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
	Void
· Oxidising liquids	Void
	Void
· Oxidising solids	Void
	Void
· Organic peroxides	Void
	Void
· Corrosive to metals	Void
	Void
· Desensitised explosives	Void
	Void

SECTION 10: Stability and reactivity

- 10.1. Reactivity** No Specific test data related to reactivity available for this product. Not expected to be particularly reactive under normal circumstances and conditions of use.
- 10.2. Chemical stability** Chemically stable under normal temperatures, recommended conditions of storage and use
- 10.3. Possibility of hazardous reactions** No hazardous reaction when handled and stored according to provisions. May react with oxidisers.
- 10.4 Conditions to Avoid** *Moisture. Heat, open flames and other ignition sources. With contaminated pipes and tanks or corroded or rusty containers may lead to increased formation of hydrogen. Detail in section 7.*
- 10.5. Incompatible materials** Incompatible with oxidizing agents, acids
- 10.6. Hazardous decomposition products** Measurements have shown that at temperatures from about 150°C by formation of small amount Formaldehyde is split off.

SECTION 11: Toxicological information

11.1. Information on toxicological effects as defined in Regulation (EC) No 1272/2008

ACUTE TOXICITY

<i>· LD/LC50 values relevant for classification:</i>		
<i>68855-54-9 Kieselguhr, soda ash flux-calcined</i>		
<i>Oral</i>	<i>LD50</i>	<i>>2,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>>2.6 mg/m³ (rat) (OECD 403 Acute Inhalation Toxicity)</i>
<i>1314-13-2 zinc oxide</i>		
<i>Oral</i>	<i>LD50</i>	<i>>5,000 mg/kg (rat) (OECD 201 Alga, Growth Inhibition Test)</i>
<i>Dermal</i>	<i>LD50</i>	<i>>2,000 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>>5.7 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)</i>
<i>540-97-6 Dodecamethylcyclohexasiloxane</i>		
<i>Oral</i>	<i>LD50</i>	<i>2,000 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>2,000 mg/kg (rat)</i>

SERIOUS EYE DAMAGE / IRRITATION

Irritation feasible

11.2. Information on other hazards

<i>· Endocrine disrupting properties</i>		
<i>540-97-6</i>	<i>Dodecamethylcyclohexasiloxane</i>	<i>List II</i>

SECTION 12: Ecological Information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

<i>Aquatic toxicity:</i>	
70131-67-8 Polydimethylsiloxane, hydroxy terminated	
<i>LC50 (96 h)</i>	200 mg/l (<i>Leuciscus</i>)
1314-13-2 zinc oxide	
<i>LC50 (96 h)</i>	4.92 mg/l (<i>Brachydanio rerio</i>)
<i>EC50 (48 h)</i>	0.413 mg/l (D)
<i>EC50 (72 h)</i>	0.137 mg/l (<i>Selenastrum cpricornutum (Grünalge)</i>) (OECD 201 Alga, Growth Inhibition Test)
<i>NOEC /7 d</i>	0.082 mg/l (<i>Daphnia Magna</i>)
540-97-6 Dodecamethylcyclhexasiloxane	
<i>EC50 (72 h)</i>	>0.002 mg/l (<i>Pseudokirchnerella Subcapitata</i>) (OECD 201 Alga, Growth Inhibition Test)
<i>EC50 (3h)</i>	>100 mg/l (activated sludge) (OECD209 Activated Sludge, Respiration Inhibition Test)
<i>NOEC/72h</i>	≥0.002 mg/l (<i>Pseudokirchnerella Subcapitata</i>) (OECD 201 Alga, Growth Inhibition Test)
<i>NOEC / 21d</i>	0.0046 mg/l (<i>Daphnia Magna</i>)

12.2. Persistence and degradability

Not Available

Other information: Elimination by absorption onto activated sludge.

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

PBT Substances:

540-97-6 Dodecamethylcyclhexasiloxane

vPvB Substances:

540-97-6 Dodecamethylcyclhexasiloxane

12.6. Other adverse effects

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Remark: Harmful to fish

Additional ecological information:

General notes

Harmful to aquatic organisms

Water hazard class1 (German Regulation) (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Must not be disposed together with household garbage. Do not empty into drains.
In an appropriate facility or burn in an approved landfill
Dispose. All applicable local and national or regional rules.

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Must be specially treated adhering to official regulations.

Waste disposal key:

The waste code according to the Waste Catalogue (AVV) depends on the waste producer and can therefore be different for a product. The waste code is to identify them separately from each waste producer.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information

General

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 Void

- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Water hazard class:** Water hazard class 1 (VwVwS 17.05.99): slightly hazardous for water. Substances of very high concern (SVHC) according to UK REACH 540-97-6 Dodecamethylcyclohexasiloxane

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

Hazard statements in full

This product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of material.

This 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. Such information is, to the best of the company's knowledge and belief, accurate And reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or Completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.