

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURES AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: Rapicast Non-Precious Bonding Investment

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

Relevant identified uses: Manufacture of dental prosthesis

1.3 Details of the supplier of the safety data sheet

Supplier Davis Schottlander & Davis Ltd
Fifth Avenue, Letchworth Garden City
Hertfordshire SG6 2WD, UK
msds@schottlander.co.uk
www.schottlander.com

1.4 Emergency telephone number

Office Hours Schottlander
+44 1462 480 848

Out of Hours UK National Chemical Emergency Centre
+44 1865 407 333

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements:

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms:



GHS08

Signal word: Danger

Hazard-determining components of labelling: Quartz, Cristobalite

Hazard statements:

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P314 Get medical advice/attention if you feel unwell.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
 vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

Dangerous components:

CAS: 14808-60-7	Quartz (SiO ₂)	25 - 50 %
EINECS: 238-878-4	STOT RE 1, H372	
CAS: 14464-46-1	Cristobalite	25 - 50 %
EINECS: 238-455-4	STOT RE 1, H372	
CAS: 1309-48-4	Magnesium oxide	5 - 10 %
EINECS: 215-171-9	Substance with an occupational exposure limit	

Full text of H-statements: see section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures:

First-aid measures general: Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.

First-aid measures after inhalation: Allow breathing of fresh air. If breathing stops, give artificial respiration. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion: Rinse mouth. Drink plenty of water as a precaution. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects,

both acute and delayed: Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Making extinguishing agents environment-friendly. Fire-extinguishing powder. Carbon dioxide. Water spray. For a significant fire Foam.

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2 Special hazards arising

from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Firefighting instructions

Use water spray or fog for cooling exposed containers.
Prevent fire-fighting water from entering environment.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Use personal protective equipment as required. Evacuate unnecessary personnel.

6.2 Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up:

Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

6.4 Reference to other sections:

Refer to protective measures listed in sections 7 and 8. Concerning disposal elimination after cleaning, see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Additional hazards when processed:

Ensure good ventilation of the work station. Avoid dust formation. Do not inhale dust. Exhaust air should only be taken into the open air by suitable separators.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving

work. Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities:
Storage conditions: Store tightly closed in a dry and cool place.

7.3 Specific end use(s): Manufacture of dental prosthesis

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

14808-60-7 Silica (respirable crystalline)	
WEL (Long-term value)	0.1 mg/m ³
1309-48-4 Magnesium oxide (as Mg)	
WEL (Long-term value)	10 mg/m ³ inhalable dust 4 mg/m ³ fume and respirable dust

8.2 Exposure controls

Appropriate engineering controls: Use adequate ventilation to keep concentrations below applicable standard.

Personal protective equipment:

Hand protection: Wear suitable gloves. Nitrile rubber. Latex. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Chemical goggles or safety glasses.

Respiratory protection: In case of dust formation, use adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation: Breathing apparatus with filter P1.

Recommended filter for short-term use: P2 (FFP 2 EN 149:2001) / P3 (FFP 3 EN 149:2001).

Skin and body protection: Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Powder
Physical state:	Solid
Colour:	White
Odour:	Odourless.
Odour threshold:	No data available.
pH:	No data available.
Melting point/Freezing point:	No data available.
Boiling point	No data available.
Flash point:	Not applicable.
Relative evaporation rate (butylacetate=1):	No data available.
Flammability (solid, gas):	No data available.
Explosive limits:	No data available.
Vapour pressure:	No data available.

SAFETY DATA SHEET

Relative vapour density at 20 °C:	No data available.
Relative density:	No data available.
Solubility:	No data available.
Log Pow:	No data available.
Auto-ignition temperature:	The product is not self-igniting.
Decomposition temperature:	No data available.
Viscosity:	Not applicable.
Explosive properties:	Product is not explosive.
Oxidising properties:	No.

9.2 Other information: No additional information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reactions known under normal conditions of use.

10.2 Chemical stability: Stable under use and storage conditions as recommended in section 7. No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions: None under normal use.

10.4 Conditions to avoid: No information available.

10.5 Incompatible materials: No information available.

10.6 Hazardous decomposition products: No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure):	Causes damage to organs through prolonged or repeated exposure.

SAFETY DATA SHEET

Aspiration hazard: Not classified
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

12.1 Toxicity:
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

12.4 Mobility in soil: No information available.

12.5 Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains. Do not dispose of with domestic waste.

European waste catalogue

18 00	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06*	chemicals consisting of or containing dangerous substances

Waste code:

The waste code number according to the Ordinance on the European Waste Catalogue (AVV) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.

14. TRANSPORT INFORMATION

14.1 UN number:
ADR, IMDG, IATA: Not regulated for transport

14.2 UN proper shipping name
ADR, IMDG, IATA: Not applicable

14.3 Transport hazard class(es)
ADR, IMDG, IATA: Not applicable

14.4 Packing group:
ADR, IMDG, IATA: Not applicable

14.5 Environmental hazards: No
Marine pollutant: No
Other information: No supplementary information available

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

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

EU-Regulations: This mixture is classified as not hazardous according to regulation (EC) 1272/2008.

National regulations: No additional information available

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out.

16. OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Relevant phrases

H372: Causes damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

STOT RE 1: Specific target organ toxicity - repeated exposure, category 1

16.2 Date of the latest revision of the SDS

Revision Date: 05/06/2024

Revision: V4

Next Review Date: 05/06/2027

This datasheet has been re-written and replaces all previous versions. The information and all further technical advice is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the substances in terms of their safety and handling requirements. The instructions given here are valid only for the product as supplied, not for derivatives resulting from its use. It implies no liability or other legal responsibility on our part. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection of incoming goods.

END OF SAFETY DATA SHEET