according to Annex II of Regulation (EC) 1907/2006 (REACH)

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

1.1. Product identifier

Trade name:

SILICONE RUBBER VULCANIZABLE AT 180 °C

Chemical type:

mixture

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

Molten metal poured into the centrifuge.

1.3. Details of the supplier of the safety data sheet

Company

CONLEY CASTING SUPPLY

Address

124 Maples St., Warwick, Rhode Island, 02888

Telephone

401-785-9500

Fax

401-7819420

E-mail

sales@conleycasting.com

1.4. Emergency telephone number

Please contact your local Poison Control Centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373

The product is classified as hazardous according to calculation methods provided by Regulation (EC) 1272/2008 (CLP), in realtion to the content of Quartz (50 - 55%). However, since this substance is incorporated in the polymer matrix, exposure to the product is not expected to result in hazards to human health, under recommended conditions of use and storage.

2.2. Label elements

Mixtures containing elastomers do not require a label, if they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market, although classified as hazardous [Regulation (EC) 1272/2008 (CLP) - Annex I, point 1.3.4.1.].

Contains Quartz.

2.3. Other hazards

Physical and chemical

The product is combustible.

For human health:

Contact with the eyes:

May cause mild and transient mechanical irritation.

Contact with the skin:

In susceptible individuals, repeated and/or prolonged exposure may cause mild irritation or rash.

Route of exposure not reasonably predictable at room temperature. Vapours can be emitted at high

temperatures and may cause respiratory irritation.

Ingestion:

Inhalation:

Route of exposure not reasonably predictable. However, the product does not pose risks for acute

and/or systemic toxicity.

For the environment:

Product constituents do not satisfy the criteria for PBT or vPvB classification according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC name	EC no	INDEX no	CAS no	Registration no	CLP classification	% w/w
Quartz (SiO2)	238-878-4	-	14808-60-7	exempted (art. 2.7.b - Annex V)	STOT RE 2; H373i	50 - 55
Octamethylcyclotetrasiloxane	209-136-7	014-018-00-1	556-67-2	01-2119529238-36	- Flam, Liq. 3; H226	0.1 - 1

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Repr. 2: H361f	
Aquatic Chronic 4: H413	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Get medical advice if discomfort or doubt occur. The first responders must always use appropriate

personal protective equipment (see SECTION 8.2).

Contact with the eyes: Rinse cautiously with water for several minutes, holding the eyelids open. If irritation persists, get

medical advice

Contact with the skin: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation persists or rash

occurs, get medical advice.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, give oxygen and call immediately a doctor. If the victim is not breathing, get a specialised

person to apply artificial respiration.

Ingestion: Rinse mouth with water, Do not induce vomiting. If you feel unwell, call mmediately call a POISON

CENTER.

4.2. Most important symptoms and effects, both acute and delayed

Contact with the eyes: May cause mild and transient mechanical irritation.

Contact with the skin: In susceptible individuals, repeated and/or prolonged exposure may cause mild irritation or rash.

Inhalation: Route of exposure not reasonably predictable at room temperature. Vapours can be emitted at high

temperatures and may cause respiratory irritation.

Ingestion: Route of exposure not reasonably predictable. However, the product does not pose risks for acute

and/or systemic toxicity.

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

For indication of any immediate medical attention, see SECTION 4.1. Basic first aid and symptomatic treatment.

SECTION 5: Firedighting measures

5.1. Extinguishing media

Suitable: Extinguishing media appropriate to the source of the fire and the surrounding area (eg. carbon dioxide, dry

chemical powder and foam).

Non suitable: Water.

5.2. Special hazards arising from the substance or mixture

The product is combustible. In case of fire, carbon oxides, silicon oxides, chlorine compounds and other irritating and/or toxic gases/vapours may be emitted.

5.3. Advice for firefighters

Operate in accordance with the provisions of the fire control plan. Evacuate and isolate the area until complete fire extinction, by limiting access only to trained personnel. Firefighters must always wear appropriate protective equipment: positive pressure self-contained breathing apparatus [ref. EN 137]; fireproof clothing [ref. EN 469); fireproof gloves [ref. EN 659]; firefighter's boots [ref. HO A29-A30]. Ensure adequate ventilation. Avoid breathing gases/vapours and contact with eyes, skin and clothing. Stay upwind. Remove containers if it can be done without risk. Alternatively, cool the recipient exposed to fire with water spray. Prevent the contaminated extinguishing water flowing into drains or waterways.

SECTION 6: Accidental release meausres

6.1. Personal precautions, protective equipment, and procedures in case of emergency

For non-emergency personnel: Operate in accordance with the provisions of the emergency plan. Alert the emergency

personnel. Ensure adequate ventilation. Avoid breathing vapours and contact with eyes and

skin. If necessary, wear appropriate personal protective equipment (see SECTION 8.2).

For emergency responders:

Operate in accordance with the provisions of the emergency plan. Evacuate and isolate the area until complete dispersion of the substance. Ensure adequate ventilation. Avoid breathing vapours and contact with eyes and skin. Wear appropriate personal protective equipment (see

according to Annex II of Regulation (EC) 1907/2006 (REACH)

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SECTION 8.2).

6.2. Environmental precautions

The product, in the form in which it is placed on the market and on the basis of its chemical-physical characteristics, does not pose risks for the environment.

6.3. Methods and material for containment and cleaning up

Collect with mechanical means and transfer in a properly labeled container. Dispose of in accordance with local and national legislation.

6.4. Reference to other sections

For information on personal protection see SECTION 8. For information on disposal considerations, see SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The work place and work methods shall be organized in such a way that direct contact with the product is prevented or minimized. Ensure adequate ventilation. Avoid breathing vapours and contact with eyes and skin. Wear appropriate personal protective equipment (see SECTION 8.2). Do not eat, drink, or smoke during use. Wash periodically clothes and personal protective equipment to remove contaminants.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container, tightly closed. Store in a cool, dry and well ventilated place. Avoid exposure to moisture and direct sunlight. Avoid the accumulation of static charges. Keep away from heat/sparks/open flames. Store away from incompatible materials (see SECTION 10.5).

7.3. Specific end use(s)

See SECTION 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Quartz alfa (respirable fraction)	SCOEL OEL - 8 hours	$= 0.05 \text{ mg/m}^3$
	ACGIH TLV - TWA	$= 0.025 \text{ mg/m}^3$
Octamethylcyclotetrasiloxane	DNEL worker - acute exposure - inhalation - systemic effects	$= 73 \text{ mg/m}^3$
	DNEL worker - acute exposure - inhalation - local effects	$= 73 \text{ mg/m}^3$
	DNEL worker - long term exposure - inhalation - systemic effects	$= 73 \text{ mg/m}^3$
	DNEL worker - long term exposure - inhalation - local effects	$= 73 \text{ mg/m}^3$
	DNEL consumer - acute exposure - inhalation - systemic effects	$= 13 \text{ mg/m}^3$
	DNEL consumer - long term exposure - inhalation - local effects	= 13 mg/m ³
	DNEL consumer - acute exposure - inhalation - systemic effects	$= 13 \text{ mg/m}^3$
	DNEL consumer - long term exposure - inhalation - local effects	$= 13 \text{ mg/m}^3$
	DNEL consumer - acute exposure - ingestione - systemic effects	= 3.7 mg/kg bw/day
	DNEL consumer - long term exposure - ingestione - systemic effects	= 3.7 mg/kg bw/day
	PNEC fresh water	= 0.00044 mg/l
	PNEC marine water	= 0.000044 mg/l
	PNEC sewage treatment plant	> 10 mg/l
	PNEC sediment (fresh water)	= 0.128 mg/kg
	PNEC sediment (marine water)	= 0.013 mg/kg
	PNEC soil	= 0.136 mg/kg

8.2. Exposure controls

Wear personal protective equipment in accordance with standards set by European and national legislation. Consult the supplier in all cases before making a final decision.

Skin protection: Wear protective clothing with long sleeves.

Hand protection: Wear impervious gloves made of nitrile rubber (thickness ≥ 0.4 mm; permeation time > 480

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minutes) or equivalent material [ref. EN 374]. However, since the product is a mixture of several substances, the resistance of the glove material should be tested before use, as it is not predictable in advance. Replace gloves immediately in case of contamination or

breakage.

Eye protection: Wear appropriate safety glasses with side shields [ref. EN 166].

Respiratory protection: Not required under recommended conditions of use. In case of inadequate ventilation or

risk of inhalation of vapours, wear a respirator appropriate to the specific conditions of

the workplace.

Technical and hygienic measures: Provide local exhaust ventilation suction or other devices to maintain the levels of particles

in the air below the recommended exposure limits. Equip with emergency showers and eyewash device the areas in which handling and storage of the product takes place. Do not eat, drink, or smoke during use. Wash periodically clothes and personal protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and

safety practices.

Environmental measures: The product, in the form in which it is placed on the market and on the basis of its

chemical-physical characteristics, does not pose risks for the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

a) Appearance: pasty solid (various colors)

b) Odour: characteristic
c) Odour threshold: no test available

no test available

d) pH: not applicable (insoluble solid)

e) Melting/freezing point:

no test available

f) Initial boiling point and boiling range:

not relevant (solid)

g) Flash point: > 800 °C

h) Evaporation rate:
not relevant (solid)
not flammable

j) Upper/lower flammability or explosive limits: no test available
 k) Vapour pressure: not relevant (solid)
 l) Vapour density: not relevant (solid)
 m) Relative density: ca, 1.500 g/cm³

m) Relative density:

n) Solubility:

o) Partition coefficient: n-octanol/water:

p) Auto-ignition temperature:

q) Decomposition temperature:

no test available

no test available

r) Viscosity:

s) Explosive properties:

ca. 1.500 g/cm³

insoluble in water

no test available

no test available

no test available

not explosive

t) Oxidising properties:9.2. Other information

Not available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

The substance is not reactive at room temperature.

10.2. Chemical stability

The substance is stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions are not expected under recommended conditions of use and storage.

10.4. Conditions to avoid

non-oxidizing

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Avoid exposure to moisture and direct sunlight. Avoid the accumulation of static charges. Keep away from heat/sparks/open flames. Store away from incompatible materials (see SECTION 10.5).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In case of thermal decomposition, carbon oxides, silicon oxides, chlorine compounds and other irritating and/or toxic gases/vapours may be emitted.

SECTION 11, TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Contact with the eyes:

May cause mild and transient mechanical irritation.

Contact with the skin:

In susceptible individuals, repeated and/or prolonged exposure may cause mild irritation or rash.

Route of exposure not reasonably predictable at room temperature. Vapours can be emitted at high

temperatures and may cause respiratory irritation.

Ingestion:

Inhalation:

Route of exposure not reasonably predictable. However, the product does not pose risks for acute

and/or systemic toxicity.

a) Acute toxicity

Quartz

not toxic if swallowed, in contact with skin or if inhaled

Octamethylcyclotetrasiloxane LD50 oral (rat) > 4800 mg/kg

LC50 inhalation (rat) = 2975 ppm (4 hours)

LD50 dermal (rabbit) > 2.5 ml/kg

No acute toxicity effect known for the product.

b) Skin corrosion/irritation

No skin corrosion/irritation effect known for the product.

c) Serious eye damage/irritation

No eye corrosion/irritation effect known for the product.

d) Respiratory or skin sensitisation

No respiratory or skin sensitisation effect known for the product.

e) Germ cell mutagenicity

No germ cell mutagenicity effect known for the product.

f) Carcinogenicity

No carcinogenicity effect known for the product.

g) Reproductive toxicity

No reproductive toxicity effect known for the product.

h) STOT-single exposure

No STOT effect known for the product after single exposure.

i) STOT-repeated exposure

The product may cause damage to organs through prolonged or repeated exposure if inhaled \Rightarrow this classification is determined by the content of Quartz (50 - 55%). However, since this substance is incorporated in the polymer matrix, exposure to the product is not expected to result in hazards to human health, under recommended conditions of use and storage.

j) Aspiration hazard

No aspiration hazard known for the product

SECTION 12: Ecological information

12.1. Toxicity

Quartz

not toxic for aquatic organisms

according to Annex II of Regulation (EC) 1907/2006 (REACH)

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Octamethylcyclotetrasiloxane LC50 fishes (oncorhyncus mykiss) > 0.022 mg/L (96 hours)

NOEC fishes (oncorhyncus mykiss) ≥ 0.0044 mg/L EC50 invertebrates (daphnia sp.) > 0.015 mg/L (48 hours) NOEC invertebrates (daphnia magna) > 0.0079 mg/L (21 days)

EC50 algae > 0.022 mg/L (96 hours)
IC50 bacteria > 10000 mg/L

No effect of toxicity for aquatic organisms known for the product.

12.2. Persistence and degradability

The product, in the form in which it is placed on the market and on the basis of its chemical-physical characteristics, is not expected to be readily biodegradable.

12.3. Bioaccumulative potential

The product, in the form in which it is placed on the market and on the basis of its chemical-physical characteristics, is not expected to be bioaccumulative.

12.4. Mobility in soil

The product, in the form in which it is placed on the market and on the basis of its chemical-physical characteristics, is not expected to be mobile in soil.

12.5. Results of PBT and vPvB assessment

Product constituents do not satisfy the criteria for PBT or vPvB classification according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

12.6. Other adverse effects

Product constituents do not have effects on the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information: Do not discharge into drains. Contact competent authorities or authorized companies that can give

indications on how to dispose. The granting of an appropriate EWC code is a specific responsibility of

the waste manufacturer.

Product residues: Incinerate in a combustion chamber, in accordance with local and national legislation, also considering the

characteristics of the product at time of disposal.

Packaging: Empty contaminated packaging and, if feasible, recover them after cleaning. Alternatively, dispose of at

an authorized treatment plant, in accordance with local and national legislation.

SECTION 14: Transport information

The product is subject to the provisions of existing legislation governing the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code) and air (IATA).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

according to Annex II of Regulation (EC) 1907/2006 (REACH)

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Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

The product does not contain:

- substances of very high concern (SVHC) included in the candidate list for Authorisation
- substances of very high concern (SVHC) subjected to Authorisation (Annex XIV)
- substances subjected to Restriction (Annex XVII) according to Regulation (EC) 1907/2006 (REACH).

according to Regulation (CC) 130772000 (RC

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the product.

SECTION 16: Other information

Revision:

This safety data sheet has been reviewed on the basis of the indications for filling included in Regulation (EU) 2015/830.

Evaluation method:

The hazard classification of the product has been defined according to calculation methods provided by Regulation (EC) 1272/2008 (CLP).

Full text of hazard statements (H) cited in SECTION 2 and SECTION 3:

H226 Flammable liquid and vapour

H361f Suspected of damaging fertility

H373i May cause damage to organs through prolonged or repeated exposure if inhaled

H413 May cause long lasting harmful effects to aquatic life

Key references and data sources:

- Regulation (EC) 1272/2008 (CLP) (and its subsequent modifications and amendments)
- Regulation (EC) 1907/2006 (REACH) (and its subsequent modifications and amendments)
- · SDS of raw materials suppliers

Indications of any appropriate training for workers:

The personnel responsible for handling the product should be either informed about its hazard and the potential risks related with its use, or educated about precautions to take in order to avoid or limit exposure.

Acronyms:

ACGIH: american conference of governmental industrial hygienists

ADR: european agreement concerning the international carriage of dangerous goods by road

CAS: chemical abstracts service

CLP: classification labelling and packaging

DNEL: derived no effect level EC: european comunity

EC50: effective concentration for 50 percent of the organisms

EWC: european waste code

IATA: international air transport association

IC50: inhibitory concentration for 50 percent of the organisms

IMDG Code: international maritime dangerous goods code

LC50: lethal concentration for 50 percent of the organisms

LD50: lethal dose for 50 percent of the organisms

NOEC: no observed effect concentration
OEL: occupational exposure limit

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PBT: persistent, bioaccumulative and toxic PNEC: predicted no effect concentration

REACH: registration, evaluation and authorization of chemicals

RID: regulations concerning the international carriage of dangerous goods by rail

SCOEL: scientific committee for occupational exposure limits

TLV: threshold limit value
TWA: time weighted average

vPvB: very persistent and very bioaccumulative

Notes:

The information provided in this safety data sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation and disposal and is not to be considered a warranty or quality specification. The user must verify the suitability and completeness of the information in relation to its particular use of the product.