

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber

Alternate Names

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber

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

Intended use

See Technical Data Sheet.

Application Method

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name

F. E. Knight Inc.
120 Constitution Blvd.,
Franklin, MA 02038. USA

Emergency

24 hour Emergency Telephone No.

Chem-Tel: 1-800-255-3924 or 617-969-5399

Customer Service: F. E. Knight Inc.

508-520-1666

2. Hazard identification of the product

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

[Disposal]:

No GHS disposal statements

3. Composition/information on ingredients

There are no ingredients in this product which are classified as hazardous.

Ingredients:

Silicone rubber (Polydimethylsiloxane with vinyl groups) CAS # 63394-02-05
Hydrated amorphous silica, non-respirable, bound in polymer matrix CAS # 7631-86-9
Exact composition and formula is a trade secret protected under US and international law.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. If breathing is difficult, give oxygen.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids.

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

Overview	Carcinogens/Reproductive toxins: This material does not contain any reportable carcinogenic ingredients. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels. Although animal testing has indicated that there is some limited carcinogenic potential for decamethylcyclopentasiloxane (D5) in rats, D5 has not been classified by IARC, NTP or OSHA as a known or potential human carcinogen. Further studies are ongoing to clarify the carcinogenic potential of D5 and the relevance to humans. See Section 11 for Toxicological Information, if any. See section 2 for further details.
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5. Fire-fighting measures

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

5.1. Extinguishing media

Water - Use Fine Spray or Fog. Dry chemical. Carbon dioxide. Water may be used to cool tanks and structures adjacent to the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

5.3. Advice for fire-fighters

Special exposure hazards: Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases. Fire-fighting procedures: Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

Hazardous combustion products: Various hydrocarbon fragments, carbon dioxide, formaldehyde, carbon monoxide, silicon dioxide.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

Methods for cleaning up: Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container.

7. Handling and storage

7.1. Precautions for safe handling

Keep container closed when not in use. Store in a dry ventilated area. Maintain package labeling during storage.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Store in a cool dry place.

Incompatible materials: No data available.

7.3. Specific end use(s)

No data available.

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

8. Exposure controls and personal protection

8.1. Control parameters

There are no ingredients in this product which are classified as hazardous.

8.2. Exposure controls

Respiratory	Not normally required.
Eyes	Safety glasses with side shields
Skin	Wear overalls to keep skin contact to a minimum. Any liquid-tight rubber or vinyl gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Safety showers and eye wash stations should be provided in areas where this product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance	Tan Semi-solid paste
Odor	Faint characteristic
Odor threshold	Not Measured
pH	NA
Melting point / freezing point	NA
Initial boiling point and boiling range	NA
Flash Point	NA
Evaporation rate (Ether = 1)	NA
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: NA Upper Explosive Limit: NA
Vapor pressure (Pa)	0.000000 hPa
Vapor Density	1.12-1.22 G/CM3
Specific Gravity	NA
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	NA

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

Decomposition temperature	NA
Viscosity (cSt)	NA
VOC %	0.0000 G/L
% Volatile	0 %
Corrosive to Steel or Aluminum	Not corrosive to steel or aluminum

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation of performance or durability.

Materials to avoid: Relatively nonreactive. No significant reactivity with water.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

11. Toxicological information

Acute toxicity

There are no ingredients in this product which are classified as hazardous.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	LD ₅₀ : >2000 mg/kg
Acute toxicity (dermal)	---	LD ₅₀ : >2000 mg/kg

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

Acute toxicity (inhalation)	---	LD ₅₀ : >2000 mg/kg
Skin corrosion/irritation	---	Non-irritating
Serious eye damage/irritation	---	Non-irritating
Respiratory sensitization	---	Non-sensitizing
Skin sensitization	---	Non-sensitizing
Germ cell mutagenicity	---	Negative
Carcinogenicity	---	No Test Data Available
Reproductive toxicity	---	No Test Data Available
STOT-single exposure	---	No Test Data Available
STOT-repeated exposure	---	No Test Data Available
Aspiration hazard	---	No Hazard Expected

12. Ecological information

12.1. Toxicity

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Aquatic Ecotoxicity

There are no ingredients in this product which are classified as hazardous.

12.2. Persistence and degradability

Biologically not degradable. Insoluble in water. Separation by sedimentation.

12.3. Bioaccumulative potential

No adverse effects expected.

12.4. Mobility in soil

Insoluble in water. No adverse effects expected.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber



SDS Revision Date:

15/01/2020

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. State and local regulations may be more stringent than Federal regulations.

Packaging disposal recommendation: Uncleaned packaging should be treated with the same precautions as the material. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. After emptying contaminated containers may be cleansed and recycled..

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable DOT Label: ---	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			
IMDG	Marine Pollutant: No		
14.6. Special precautions for user			
	No further information		

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification Not Regulated

US EPA Tier II Hazards

Fire:No

Sudden Release of Pressure:No

Reactive:No

Immediate (Acute):No

Delayed (Chronic):No

EPCRA 311/312 Chemicals and RQs:
(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:
(No Product Ingredients Listed)

Safety Data Sheet

Castaldo® Super High Strength™ Silicone Jewelry Molding Rubber

SDS Revision Date:

15/01/2020



Proposition 65 - Carcinogens (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):

(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):

(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :

(No Product Ingredients Listed)

Penn RTK Substances (>1%) :

(No Product Ingredients Listed)

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not Applicable

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: The information contained herein is considered accurate; however, F .E. Knight, Inc. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.

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