

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

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

#### 1.1. Product identifier

**Product Identity**

Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A

**Alternate Names**

Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A

#### 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**

**CHEMTREC (USA)**

(800) 424-9300

**24 hour Emergency Telephone No.**

Chem-Tel: 1-800-255-3924

**Customer Service: F. E. Knight Inc.**

508-520-1666 or 617-969-5399

### 2. Hazard identification of the product

#### 2.1. Classification of the substance or mixture

|                    |  |
|--------------------|--|
| Acute Tox. 4;H332  | Harmful if inhaled.  |
| Skin Irrit. 2;H315 | Causes skin irritation.  |
| Eye Irrit. 2;H319  | Causes serious eye irritation.   |
| Skin Sens. 1;H317  | May cause an allergic skin reaction.   |
| Resp. Sens. 1;H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled.                                 |
| Carc. 2;H351       | Suspected of causing cancer.   |
| STOT SE 3;H335     | May cause respiratory irritation.  |
| STOT RE 2;H373     | May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available) |

#### 2.2. Label elements

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

## Safety Data Sheet

### Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014



**Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

#### **[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

#### **[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P308+313 IF exposed or concerned: Get medical advice / attention.

P314 Get Medical advice / attention if you feel unwell.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

### [Disposal]:

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

### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations  | Weight % | GHS Classification  | Notes  |
|---|----------|---|--------|
| <b>Polymeric Diphenylmethane Diisocyanate</b><br>CAS Number: 0009016-87-9 | 25 - 50  | Acute Tox. 4;H332<br>Skin Irrit. 2;H315<br>Eye Irrit. 2;H319<br>STOT SE 3;H335<br>Skin Sens. 1;H317<br>Resp. Sens. 1;H334                                   | [1]    |
| <b>Diphenylmethanediisocyanate</b><br>CAS Number: 0000101-68-8            | 10 - 25  | Carc. 2;H351<br>Acute tox. 4;H332<br>STOT RE 2;H373<br>Eye Irrit. 2;H319<br>STOT SE 3;H335<br>Skin Irrit. 2;H315<br>Resp. Sens. 1;H334<br>Skin Sens. 1;H317 | [1][2] |

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 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.

##### Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

##### Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

**Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

#### Overview

**Primary Route(s) of Entry:** Inhalation, skin or eye absorption.

**Eye:** May cause moderate eye irritation.

**Skin:** Exposure may cause skin irritation, staining, or sensitization.

**Ingestion:** Single oral dose toxicity is low. May cause nausea, vomiting, and diarrhea.

**Inhalation:** At room temp., vapors are minimal. Vapors or aerosols (e.g., generated during heating or spraying) may cause respiratory irritation. May cause respiratory sensitization in susceptible individuals. For individuals sensitized to MDI, exposure may result in allergic respiratory reactions (e.g., coughing, difficulty breathing).

**Chronic Effects:** Repeated overexposure to MDI may cause respiratory and dermal sensitization.

Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 3 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

See section 2 for further details.

#### Inhalation

Harmful if inhaled. May cause allergy or asthma symptoms of breathing difficulties if inhaled.

#### Eyes

Causes serious eye irritation.

#### Skin

May cause an allergic skin reaction. Causes skin irritation.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Possibly isocyanate vapor, carbon monoxide, nitrogen oxides, and traces of hydrogen cyanide.

Composition products may include MDI vapor, nitrogen oxides, isocyanates, carbon monoxide, carbon dioxide, and unidentified toxic and irritating compounds.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Use explosion-proof electrical / ventilating / light / equipment.

Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

Firefighters wear SCBA and full-body protective suit. Solid stream of water into hot product may cause violent steam generation or eruption. Dense smoke is formed when product burns. Use water to cool hot containers

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

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

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

Clear non-emergency personnel from the area. Extinguish sources of ignition. Put on protective equipment (see Section 8). Contain spill to minimize environmental contamination. Absorb spilled material with an inert absorbent. Collect and containerize material. Do not seal containers of spill residue since carbon dioxide is generated upon contact with moisture and dangerous pressure buildup can occur. Neutralize contaminated floor area with a mixture of water (90%), ammonia (3-8%) and detergent (2%). Clean floor before material reacts with moisture in the air and forms a difficult to remove rubber.

## 7. Handling and storage

### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Precautions should be taken to minimize exposure to atmospheric humidity or water as carbon dioxide may be formed which, in closed containers can result in pressurization. Care should be taken when re-opening partly used containers.

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used.

Examination of lung function should be carried out on a regular basis on persons applying this preparation.

Incompatible materials: Avoid contact with water, acids, bases, alcohols, strong oxidizers, and some metals (e.g., aluminum, brass, copper). Reaction with water generates carbon dioxide, and results in heat and pressure buildup in closed systems.

Store indoors at temperatures > 75°F and < 105°F. Store in original, unopened container. Protect from atmospheric moisture and water, since MDI reacts with water to form CO<sub>2</sub> leading to potentially dangerous pressure build up in sealed.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

### Exposure

| CAS No.      | Ingredient                             | Source   | Value  |
|--------------|--|----------|--|
| 0000101-68-8 | Diphenylmethanediisocyanate            | OSHA     | C 0.2 mg/m <sup>3</sup> (0.02 ppm)   |
|              |  | ACGIH    | TWA: 0.005 ppm Ceiling: 0.01 ppmSkin, S  |
|              |  | NIOSH    | TWA 0.05 mg/m <sup>3</sup> (0.005 ppm) C 0.2 mg/m <sup>3</sup> (0.020 ppm) [10-minute] |
|              |  | Supplier | No Established Limit   |
| 0009016-87-9 | Polymeric Diphenylmethane Diisocyanate | OSHA     | No Established Limit   |
|              |  | ACGIH    | No Established Limit   |
|              |  | NIOSH    | No Established Limit   |
|              |  | Supplier | No Established Limit   |

### Carcinogen Data

| CAS No.      | Ingredient                             | Source | Value   |
|--------------|--|--------|---|
| 0000101-68-8 | Diphenylmethanediisocyanate            | OSHA   | Select Carcinogen: No   |
|              |  | NTP    | Known: No; Suspected: No  |
|              |  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |
| 0009016-87-9 | Polymeric Diphenylmethane Diisocyanate | OSHA   | Select Carcinogen: No   |
|              |  | NTP    | Known: No; Suspected: No  |
|              |  | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Protective safety glasses recommended.

#### Skin

Wear overalls to keep skin contact to a minimum. Chemical splash goggles, protective clothing, and impervious rubber gloves are 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

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

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

See section 2 for further details. - [Prevention]:

### 9. Physical and chemical properties

|  |  |
|--|--|
| <b>Appearance</b>                                      | Brown Clear Liquid   |
| <b>Odor</b>  | Mild   |
| <b>Odor threshold</b>                                  | Not Measured   |
| <b>pH</b>  | Not Measured   |
| <b>Melting point / freezing point</b>                  | Not Measured   |
| <b>Initial boiling point and boiling range</b>         | No Data  |
| <b>Flash Point</b>                                     | 400 F (estimated)  |
| <b>Evaporation rate (Ether = 1)</b>                    | Not Measured   |
| <b>Flammability (solid, gas)</b>                       | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b>    | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |
| <b>Vapor pressure (Pa)</b>                             | Negligible   |
| <b>Vapor Density</b>                                   | Not Measured   |
| <b>Specific Gravity</b>                                | Approximately 1.1, at 25 C, g/cc   |
| <b>Solubility in Water</b>                             | Not Measured   |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | Not Measured   |
| <b>Auto-ignition temperature</b>                       | Not Measured   |
| <b>Decomposition temperature</b>                       | Not Measured   |
| <b>Viscosity (cSt)</b>                                 | Not Measured   |
| <b>Solubility in Water</b>                             | Insoluble forms CO <sub>2</sub>  |

#### 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

None known.

#### 10.4. Conditions to avoid

Moisture and temperatures < 75 °F and > 95°F to ensure product integrity.

#### 10.5. Incompatible materials

Avoid contact with water, acids, bases, alcohols, strong oxidizers, and some metals (e.g., aluminum, brass, copper).

## Safety Data Sheet

# Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

Reaction with water generates carbon dioxide, and results in heat and pressure buildup in closed systems.

### 10.6. Hazardous decomposition products

Possibly isocyanate vapor, carbon monoxide, nitrogen oxides, and traces of hydrogen cyanide.

## 11. Toxicological information

### Acute toxicity

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitisation of the respiratory system resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

| Ingredient   | Oral LD50, mg/kg              | Skin LD50, mg/kg                | Inhalation Vapor LD50, mg/L/4hr | Inhalation Dust/Mist LD50, mg/L/4hr | Inhalation Gas LD50, ppm |
|--|-------------------------------|---------------------------------|---------------------------------|-------------------------------------|--------------------------|
| Polymeric Diphenylmethane Diisocyanate - (9016-87-9) | 49,000.00, Rat - Category: NA | 9,400.00, Rabbit - Category: NA | No data available               | No data available                   | No data available        |
| Diphenylmethanediisocyanate - (101-68-8)             | 4,700.00, Rat - Category: 5   | No data available               | No data available               | No data available                   | No data available        |

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)         | ---      | Not Applicable   |
| Acute toxicity (dermal)       | ---      | Not Applicable   |
| Acute toxicity (inhalation)   | 4        | Harmful if inhaled.  |
| Skin corrosion/irritation     | 2        | Causes skin irritation.  |
| Serious eye damage/irritation | 2        | Causes serious eye irritation.   |
| Respiratory sensitization     | 1        | May cause allergy or asthma symptoms of breathing difficulties if inhaled. |
| Skin sensitization            | 1        | May cause an allergic skin reaction.                                       |
| Germ cell mutagenicity        | ---      | Not Applicable   |
| Carcinogenicity               | 2        | Suspected of causing cancer.   |
| Reproductive toxicity         | ---      | Not Applicable   |



# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

|                        |     |  |
|------------------------|-----|--|
| STOT-single exposure   | --- | Not Applicable   |
| STOT-repeated exposure | 2   | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard      | --- | Not Applicable   |

### 12. Ecological information

#### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

| Ingredient   | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|--|-----------------------|----------------------------|-------------------|
| Polymeric Diphenylmethane Diisocyanate - (9016-87-9) | Not Available         | Not Available              | Not Available     |
| Diphenylmethanediisocyanate - (101-68-8)             | Not Available         | 129.70, Daphnia magna      | Not Available     |

#### 12.2. Persistence and degradability

There is no data available on the preparation itself.

#### 12.3. Bioaccumulative potential

Not Measured

#### 12.4. Mobility in soil

No data available.

#### 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

Observe all federal, state and local regulations when disposing of this substance.

Toxic fumes may be generated upon incineration.

### 14. Transport information

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

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

### 15. Regulatory information

|  |  |
|--|--|
| <b>Regulatory Overview</b>                               | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.  |
| <b>Toxic Substance Control Act ( TSCA)</b>               | All components of this material are either listed or exempt from listing on the TSCA Inventory.  |
| <b>WHMIS Classification</b>                              | B2 D2A   |
| <b>US EPA Tier II Hazards</b>                            | <p style="text-align: right;"><b>Fire:</b> Yes</p> <p style="text-align: right;"><b>Sudden Release of Pressure:</b> No</p> <p style="text-align: right;"><b>Reactive:</b> No</p> <p style="text-align: right;"><b>Immediate (Acute):</b> Yes</p> <p style="text-align: right;"><b>Delayed (Chronic):</b> Yes</p> |
| <b>EPCRA 311/312 Chemicals and RQs (lbs):</b>            |  |
|  | Diphenylmethanediisocyanate ( 5,000.00)  |
| <b>EPCRA 302 Extremely Hazardous :</b>                   |  |
|  | (No Product Ingredients Listed)  |
| <b>EPCRA 313 Toxic Chemicals:</b>                        |  |
|  | Diphenylmethanediisocyanate  |
|  | Polymeric Diphenylmethane Diisocyanate   |
| <b>Proposition 65 - Carcinogens (&gt;0.0%):</b>          |  |
|  | (No Product Ingredients Listed)  |
| <b>Proposition 65 - Developmental Toxins (&gt;0.0%):</b> |  |
|  | (No Product Ingredients Listed)  |
| <b>Proposition 65 - Female Repro Toxins (&gt;0.0%):</b>  |  |
|  | (No Product Ingredients Listed)  |
| <b>Proposition 65 - Male Repro Toxins (&gt;0.0%):</b>    |  |

# Safety Data Sheet

## Castaldo® LiquaCast® RTV Jewelry Molding Rubber Part A



SDS Revision Date:

11/03/2014

(No Product Ingredients Listed)

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

Diphenylmethanediisocyanate  
Polymeric Diphenylmethane Diisocyanate

**Penn RTK Substances (>1%):**

Diphenylmethanediisocyanate

### 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:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

**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.

End of Document