castaldo®

Rapido ™ Silicone Jewelry Molding Rubber

1	FIRE HAZARD
1	HEALTH HAZARD
2	REACTIVITY

HAZARD KEY
4 - SEVERE
3 -SERIOUS
2 -MODERATE
1 - SLIGHT
0 - MINIMAL

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SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
NEBE	1333-74-0	Hydrogen gas	varies	varies	

Type: HYD -by-product upon hydrolysis, INHA -ingredient, NEBE -by-product, MONO- residual monomer, VERU- impurity, VUL -by-product upon vulcanization. *** Note: C1 -IARC carcinogen, C2 -NTP carcinogen, C3 -OSHA carcinogen, NH –non-hazardous, R- reproductive toxin.

Substances listed in the Subsections HAPS and California Proposition 65 Carcinogens / Reproductive Toxins that are not listed in Section 2 are only present at quantities below 0.1% or they are inextricably bound in the product.

SECTION 3- Hazards identification

3.1 Hazards classifications
HMIS rating (product as packaged) :

Health: 1 Fire: 1 Reactivity: 2 PPE: B

(HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards
This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Physical Hazards:
Under certain conditions this material may generate flammable hydrogen gas.

Acute health effects
Route of entry or possible contact:
Eyes, skin, ingestion

Eye contact:
May cause slight eye irritation.

Skin contact:
No acute toxic effects are expected.

Inhalation:
Inhalation is not expected due to low vapor pressure.

Ingestion:
Not expected in industrial use.

Additional information on acute health effects:
The health hazard evaluation is based on test results and/or on known properties of ingredients.

3.3 Further information:

Medical conditions which may be aggravated by exposure:
Unknown

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.

See Section 11 for Toxicological Information, if any.

SECTION 4 –FIRST AID MEASURES

4.1 General information:
In cases of sickness seek medical advice (show label if possible)

4.2 After inhalation:
No special measures required.

4.3 After contact with the skin:
Remove material with a waterless skin cleaner from skin and clothing. Wash then with plenty of water or water and soap.

4.4 After contact with the eyes:
If contact with eyes, immediately hold eyelids apart and flush with plenty of water. Get medical attention if irritation occurs.

4.5 After swallowing:
No special measures required. Get medical attention if symptoms occur. Show label if possible.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Flammable properties:

5.2 Fire and explosion hazards:
Caution! This product is not flammable but it may evolve flammable hydrogen gas under certain conditions, which may accumulate in the container headspace. Do not use a welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Spontaneous ignition is possible due to electrostatic discharge. The generation of hydrogen gas is increased under circumstances mentioned in Sect. 10 "Stability and reactivity". Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Explosion limits for hydrolysis product: 4-75.6% v/v (hydrogen).

5.3 Recommended extinguishing media:
Carbon dioxide, alcohol-resistant foam, dry sand.

5.4 Unsuitable extinguishing media:
Water, dry chemical, halones.

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

5.6 Fire fighting procedures:
Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

6.1 Precautions:
No special measures required.
HAZWOPER PPE Level: D

6.2 Containment:
Prevent material from entering surface waters, drains or sewers and open soil.
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.

6.3 Methods for cleaning up:
Take up mechanically and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

6.4 Further information:
Eliminate all sources of ignition. Do not seal collecting vessel gas-tight. Observe notes under section 7.

SECTION 7 - HANDLING AND STORAGE

7.1 Handling

Precautions for safe handling:
Open and handle container with care. Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10.2.

Precautions against fire and explosion:
Product can release hydrogen. In partly emptied containers formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat and sparks. Take precautionary measures against electrostatic charging.

7.2 Storage

Conditions for storage rooms and vessels:
None known

Advice for storage of incompatible materials:
Keep away from alkalis.

Further information for storage:
Protect against moisture. Store in original container only. Keep container tightly closed and store in a well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Engineering controls

Ventilation:
Use only with adequate ventilation.

Local exhaust: Yes

8.2 Associate substances with specific control parameters such as limit values
None known

8.3 Personal protection equipment (PPE)

Respiratory protection:
Not necessary

Hand protection:
Recommendation: butyl rubber protective gloves, nitrile rubber protective gloves

Eye protection:
Chemical safety goggles.

Other protective clothing or equipment:
Recommendation: antistatic clothing and shoes.

8.4 General hygiene and protection measures:
Do not eat, drink or smoke when handling. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Physical state/form:	Solid
Color:	Clear
Odor:	Characteristic

9.2 Safety parameters

Density:	1.14 g/cm3

9.3 Further information
Explosion limits for released hydrogen: 4 -75.6%(V).

SECTION 10 - STABILITY AND REACTIVITY

10.0 General information:
If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:
None known

10.2 Materials to avoid:
Reacts with: alkalis, amines, strong acids, oxidizing agents. Reaction causes the formation of: hydrogen.

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

10.4 Further information:
Hazardous polymerization cannot occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 General information:
Toxicological testing has not been conducted with this material.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Information on elimination (persistence and degradability)

Biodegradation / further information:
Biologically not degradable.

Further information:
Separation by sedimentation.

12.2 Behavior in environmental compartments

Mobility
Insoluble in water.

Further information:

Bioaccumulation is not expected to occur.

12.3 Ecotoxicological effects:
No expected damaging effects to water organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):
According to current knowledge adverse effects on water purification plants are not expected.

12.4 Further ecological information

Other harmful effects
None known

General information:
No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Product disposal

Recommendation:
Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis. Material designated for disposal must, be segregated from incompatible substances or materials specified in Sect. 10.2. Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging disposal
Recommendation:
Containers may contain hazardous quantities of hydrogen gas. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used.
Observe local/state/federal regulations.

SECTION 14 - TRANSPORT INFORMATION

14.1 US DOT & CANADA TDG SURFACE
Valuation: Not regulated for transport

14.2 Transport by sea IMDG-Code
Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR
Valuation: Not regulated for transport

SECTION 15 - REGULATORY INFORMATION

15.1 U.S. Federal regulations

TSCA inventory status and TSCA information:
This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:
This material does not contain any TSCA 12(b) regulated chemicals.

SARA 311/312 Hazard Class:
This product does not present any SARA 311/312 hazards.

HAPS:
This material has not been evaluated for the presence of chemicals on the Hazardous Air Pollutants (HAPS) list.

15.2 U. S. State regulations
The status of this material with regard to State Listings has not been determined.

15.3 Canadian regulations
This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:
None.

DSL Status:
The Canadian DSL status of this material has not been determined.

SECTION 16 - OTHER INFORMATION

16.1 Additional information:

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200) .This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates 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 our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:

ACGIH -American Conference of Governmental Industrial Hygienists	**ppm** -Parts per Million
DOT -Department of Transportation	**SARA** -Superfund Amendments and Reauthorization Act
hPa -Hectopascals	**STEL**- Short Term Exposure Limit
mPa*s -Milli Pascal-Seconds	**TSCA**- Toxic Substances Control Act
OSHA -Occupational Safety and Health Administration	**TWA**- Time Weighted Average
PEL- Permissible Exposure Limit	**WHMIS** -Canadian Workplace Hazardous Materials Identification System

Flash point determination methods	**Common name**
ASTM D56	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679	Setaflash or Rapid closed cup
DIN 51755	Abel-Pensky closed cup

16.3 Conversion table:
Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa
Viscosity: 1 mPa*s = 1 Centipoise (Cp)