



Material Safety Data Sheet

Product Name: EasyMold Silicone Rubber Part A

Product Codes: 33720, 33730

Revision Date: 9/17/2008

1. Product and Company Identification

Product Name: EasyMold Silicone Rubber Part A

Product Codes: 33720, 33730

Company Identification:

Environmental Technology, Inc.

PO Box 365

300 S. Bay Depot Road

Fields Landing, CA 95537

Telephone Numbers:

Emergency Transportation **CHEMTREC (800) 424-9300**

Customer Information **(800) 368-9323**

2. Composition and Information on Ingredients

Chemical Characteristics:

Polydimethylsiloxane with functional groups + auxiliaries for addition cross-linking

Information on Ingredients:

Type	CAS NO.	Substance	Content (wt %)		Note
			Lower	Upper	
INHA		hydrogen functional polydimethylsiloxane	15.0	40.0	NH
NEBE	1333-74-0	Hydrogen gas	Varies	Varies	

Type: INHA – ingredient, NEBE – by-product.

***Note: NH – Non-hazardous

This material does not contain any OSHA or WHMIS reportable hazardous ingredients. Due to the physical nature of this material (paste), exposure to dusts/particulates is not expected.

Substances listed in subsections “HAPS” and “California Proposition 65 Carcinogens / Reproductive Toxins” that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

3. Physical and Chemical Properties

Hazard Classifications:

HMIS® Rating (product as packaged)

Health: 1

Fire: 1

Reactivity: 2

PPE: B

Emergency overview and potential hazards:

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

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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 skin effects are expected.

Inhalation:

Inhalation is not expected due to low vapor pressure.

Ingestion:

Ingestion is 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.

Chronic health effects:

No known or expected chronic health effects.

Medical conditions which may be aggravated by exposure:

None known.

Target organs affected:

No known internal organ effects.

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

This material does not contain any reportable carcinogenic ingredients. Exposure to carcinogens cannot occur under normal conditions of use or during foreseeable emergencies.

See Section 11 for Toxicological Information, if any.

4. First Aid Measures

General information:

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

After inhalation:

No special measures required.

After contact with the skin:

Wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

After contact with the eyes:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

After swallowing:

No special treatment is required.

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5. Fire Fighting Measures

Flammable properties:

Flash point.....: >294 °C (> 561 °F)
Boiling point / boiling range.....: not applicable
Lower explosion limit (LEL).....: not applicable
Upper explosion limit (UEL).....: not applicable
Ignition temperature: > 450 °C (> 842 °F) (DIN 51794)
NFPA Hazard Class (comb./flam.liquid): IIIB

Method:

(ISO 2592)

Fire and explosion hazards:

Caution! Under certain conditions this material may generate flammable hydrogen gas. Consider possible formation of explosive mixtures with air, for example in uncleaned containers by moisture. Never use 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". Explosion limits for hydrolysis product: 4-75.6% v/v (hydrogen).

Recommended extinguishing media:

Carbon dioxide, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media:

Water, dry chemical, halons.

Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water. Hydrogen gas can become trapped under foam blankets, so sources of ignition must be eliminated during the clean-up and recovery process.

6. Accidental Release Measures

Precautions:

If material is released indicate risk of slipping. Do not walk through spilled material.

HAZWOPER PPE Level: D

Containment:

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Close leak if possible without risk.

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:

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:

Eliminate all sources of ignition. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10.2. Do not blend contaminated material with uncontaminated material. Observe notes under section 7.

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7. Handling and Storage

Handling

Precautions for safe handling:

Open and handle container with care. Ensure adequate ventilation. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10.2. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level.

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.

Storage Conditions for storage rooms and vessels:

Do not store in virgin glass containers with basic surface.

Advice for storage of incompatible materials:

Do not store with basic substances (e.g. alkalis, ammonia, amines), oxidizing agents, strong acids .

Further information for storage:

Protect against moisture. Store in a dry and cool place. Store container in a well ventilated place.

8. Exposure Controls and Personal Protection

Ventilation:

Use with adequate ventilation.

Local exhaust:

Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use.

Personal protection equipment (PPE)

Respiratory protection:

Respiratory protection is not normally required.

Hand protection:

Recommendation: Any liquid-tight rubber or vinyl gloves.

Eye protection:

Recommendation: Safety glasses with side shields.

Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

General hygiene and protection measures:

When handling, do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance:

Physical state / form: liquid

Color: white

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Odor: odorless

Safety parameters:

Melting point / melting range:	not determined	
Boiling point / boiling range:	not applicable	
Flash point:	> 294 °C (> 561 °F)	(ISO 2592)
Ignition temperature:	> 450 °C (> 842 °F)	(DIN 51794)
Lower explosion limit (LEL):	not applicable	
Upper explosion limit (UEL):	not applicable	
Vapor pressure:	not determined	
Density:	1.13 g/cm ³ at 20 °C (68 °F), at 1013 hPa	(DIN 51757)
Water solubility / miscibility:	virtually insoluble at 20 °C (68 °F)	
pH-Value:	not applicable	
Viscosity (dynamic):	approx. 2500 mPa.s at 20 °C (68 °F)	(BROOKFIELD)
Thermal decomposition:	> 200 °C (> 392 °F)	

Method:

Further information:

According to previous experience spontaneous combustion temperature for polymer siloxane with SiH compounds is above 240 °C (464 °F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V). Re 9.2 pH Value: Product displays neutral reaction.

10. Stability and Reactivity

General information:

Stable under normal conditions of use. In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas.

Conditions to avoid:

Moisture. Heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation.

Observe information in section 7.

Materials to avoid:

Reacts violently with: acids, basic substances (e.g. alkalis, ammonia, amines) . Reacts with: alcohols, water, moisture, oxidizing agents, catalyst. Reaction causes the formation of: hydrogen .

Hazardous decomposition products:

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

Further information:

Hazardous polymerization cannot occur.

11. Toxicological Information

General information:

Toxicological testing has been conducted with this material.

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Toxicological data:

Test system	Effect	Source
Bacterial Reverse Mutation Test	Not mutagenic	Test report

12. Ecological Information

Information on elimination (persistence and degradability)

Biodegradation / further information:

Biologically not degradable.

Further information:

Separation by sedimentation.

Insoluble in water.

Further information:

Bioaccumulation is not expected to occur.

Ecotoxicological effects:

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

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.

13. Disposal Considerations

Product disposal recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations.

Packaging disposal recommendation:

Completely empty containers. Containers may be recycled or re-used. Observe local/state/federal regulations.

14. Transportation Information

US DOT & Canada TDG Surface:

Not regulated for transport.

Transport by sea IMDG-Code:

Not regulated for transport.

Air transport ICAO-TI/IATA-DGR:

Not regulated for transport.

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15. Regulatory Information

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.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

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

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.

U.S. State regulations

California Proposition 65 Carcinogens:

14808-60-7 Quartz

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:

14808-60-7 Quartz

New Jersey Right-to-Know Hazardous Substance List:

14808-60-7 Quartz

Pennsylvania Right-to-Know Hazardous Substance List:

14808-60-7 Quartz

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:

This material or its components are listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List:

14808-60-7 Quartz

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16. Other Information

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.

Glossary of Terms:

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

Flash point determination methods:

ASTM D56
ASTM D92, DIN 51376, ISO 2592
ASTM D93, DIN 51758, ISO 2719
ASTM D3278, DIN 55680, ISO 3679
DIN 51755

Common name:

Tagliabue (Tag) closed cup
Cleveland open cup
Pensky-Martens closed cup
Setaflash or Rapid closed cup
Abel-Pensky closed cup

Conversion table:

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