Product SDS

Reference date:1/25/2023 *Revision date: 4/23/2024*

01. Identification of the substance/mixture and of the company

Product name: Silicone Finger Mats

Code number(s): 2-2025, 2-1405, 2-3215, 2-1055, 2-1215, 6-1914, 2-4005, 2111-M, 2-6005, 1116

Purpose of product: To protect delicate items to hold in place and prevent damage.

Manufacturer/supplier: Healthmark Industries Co.

Address: 18600 Malyn Blvd. / Fraser, MI 48026

Telephone/Fax/Email: (800) 521-6224 / (586) 491-2113 / healthmark@hmark.com

Emergency telephone number: (800) 424-9300 (24-hour service)

02. Hazardous identifications

Classification of the substance or mixture: GHS classification in accordance with the OSHA Hazard Communication Standard (29 CRF 1910.1200).

Pigment: N/A

Adverse environmental and human health effects: Suspected of damaging fertility or the unborn child.

Precautionary Statements: Prevention- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and/or face protection.

Response- IF exposed or concerned: Get medical advice/attention.

Storage- Store locked up.

Disposal- Dispose of contents and/or container to an approved waste disposal plant.

03. Composition/information on ingredients

Description of the mixture:	CAS #:	% by Weight
Dimethyl Siloxane, Hydroxy-term reaction with Silica	102782-80-9	>=29.0- <=31.0%
Octamethyl Cyclotetrasiloxane	556-67-2	>=0.012- <=0.12%

Hazardous ingredients: N/A

General information: Suspected of damaging fertility or the unborn child.
First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 7 for specific personal protective clothing.

Following inhalation: Move person to fresh air and keep comfortable for breathing; consult a physician.

Following skin contact: Wash off with plenty of water. Seek first aid or medical attention as needed. If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Remove could result in severe tissue damage. Seek medical attention immediately. A suitable emergency safety shower facility should be immediately available.

Following eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Following ingestion: If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

Notes for the doctor: If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

04. Firefighting measures

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Water spray.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance and combustion products: Hazardous combustion products: Silicon oxides. Carbon oxides. Formaldehyde.

Unusual Fire and Explosion Hazards: Exposure to combustion products may be a hazard to health.

Advice for firefighters: Use water spray to cool unopened containers. Evacuate area. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from the fire area if it is safe to do so.

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

05. Accidental release measures

General information: Use personal protective equipment. Follow safe handling advise and personal protective equipment recommendations.

Environmental precautions: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Additional information: Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

06. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Do not swallow. Avoid prolonged or repeated contact with skin. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY.

Since emptied containers retain product residue follow all SDS and label warnings even after container is emptied. Use only with adequate ventilation.

Fire Preventions: N/A

Technical measures and storage conditions: Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Do not store with the following product types: Strong oxidizing agents.
Unsuitable materials for containers. None known.

07. Exposure controls/personal protection

Control parameters:

Component	Regulation	Type of listing	Value
Dimethyl Siloxane, Hydroxy-term reaction with Silica	Dow IHG	TWA Respirable dust	2 mg/m3
	Dow IHG	TWA Total dust	6 mg/m3
	OSHA Z-3	TWA Dust	20 Million particles per cubic foot, Silica
	OSHA Z-3	TWA Dust	80 mg/m3 / %SiO2, Silica
	OSHA CARC	PEL respirable	0.05 mg/m3
	Further information: OSHA specifically regulated carcinogen		
Octamethyl Cyclotetrasiloxane	US WEEL	TWA	10 ppm

Personal protective equipment: When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task. Use gloves with insulation for thermal protection, when needed. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also consider all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or were indicated by your risk assessment process. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present.

The following should be effective types of air-purifying respirators: When dust/mist are present use a/an Particulate filter. When combinations of vapors, acids, or dusts/mists are present use a/an Organic vapor cartridge with a particulate pre-filter.

Eye protection: Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. If exposure causes eye discomfort, use a full-face respirator.

Advice on general occupational hygiene: N/A

Environmental exposure controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

08. Physical and chemical properties

Appearance: N/A

Physical state: Rubber-Crepe

Color: Milky white translucent

Odor: N/A

Safety relevant basic data: N/A

Explosion hazard: N/A

Density: 1.16

pH: N/A

Initial boiling point/range: ºC /ºF N/A

Solubility: N/A

Flash point: ºC /ºF N/A

Ignition temperature: ºC /ºF N/A

Melting point: ºC / ºF N/A

Conditions to avoid: N/A

Incompatible materials: N/A

09. Stability and reactivity

Conditions to avoid: N/A

Incompatible materials: Avoid contact with oxidizing materials.

Hazardous decomposition products: Decomposition products can include and are not limited to: Formaldehyde.

10. Toxicological information

Information on toxicological effects: Eye contact, skin contact, and ingestion. Acute oral toxicity- very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

Irritation: Skin irritation- Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.
Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

Dimethyl Siloxane, Hydroxy-term reaction with Silica: May cause skin irritation due to mechanical abrasion, may cause drying and flaking of the skin.

Eye Damage/eye irritation: Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

Sensitization: N/A

Inhalation: No adverse effects are anticipated from single exposure to dust. Vapors released during thermal processing may cause respiratory irritation.

Aspiration hazard: Octamethyl Cyclotetrasiloxane: May be harmful is swallowed and enters airways.

In animals- Octamethyl Cyclotetrasiloxance effects have been reported in the following organs:
Kidney
Liver
Respiratory tract
Female reproductive organs

Practical experiences: N/A

Ingredient: N/A

11. Ecological information

Terrestrial toxicity: No data available

Aquatic toxicity: Acute toxicity in fish

Mobility: N/A

Persistence and degradability: N/A

Bio accumulative potential: N/A

Results of PBT and vPvB assessment: N/A

Other adverse effects: N/A

12. Disposal considerations

Product: Please refer to applicable local, state and federal regulations. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.

Contaminated packaging: Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Do not reuse containers for any purpose.

Uncontaminated packaging: N/A

13. Transport information

UN-No: N/A

Proper shipping name: N/A

Classification code: N/A

Packing group: N/A

Hazard label: N/A

14. Regulatory information

Material safety evaluation: N/A

Regulation on combustible liquids: N/A

Class according 2009/104/EG (BetrSichV): N/A

Water hazard class: N/A

Storage according TRGS 510 (Storage of hazardous substances in non-stationary containers): N/A

15. Other information

Recommended application: Store in cool place. Do not store above 104ºF (40ºC). Shield from direct sun exposure or fluorescent lighting to prevent discoloration. Do not store in areas that are damp or in high humidity.

Relevant R-, H-, and EUH-phrases: N/A

The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and beliefs at the date of the publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes.