

## 1. Chemical product and company identification

Substance name	:	Shodex STANDARD M-75
Reference No.	:	SD-051UN
Recommended use(s)	:	Calibration standrd for size exclusion chromatography.
Restrictions on use	:	For analytical use only. Please contact our department in charge when using for purposes other than those recommended.
Company/undertaking identification	:	Resonac Corporation
Address	:	Tokyo Shiodome Building, 1-9-1 Higashi-Shimbashi, Minato-ku, Tokyo , 105-7325,Japan
Department name	:	Functional Chemicals Business Unit Specialty Chemicals Department
Tel.	:	+81-3-6263-8112
E-mail	:	rec_shodex@resonac.com
Emergency number	:	+81-44-322-6844 (night / holiday)( Resonac Corporation Kawasaki Plant)

## 2. Hazards identification

GHS classification: The mixture does not meet the criteria for GHS classification..

GHS label elements: No label elements applicable

## 3. Composition/information on ingredients

Distinction of substance or mixture : Substance

Name	Concentration (%)	CAS-No.
Polymethyl methacrylate	100	9011-14-7

## 4. First aid measures

### First aid measures

inhalation	:	If a large amount of powder or dust is inhaled, remove victim to fresh air. If the victim is vomiting, turn the head to the side to prevent suffocation. Get medical advice/attention if needed.
skin contact	:	Wash off thoroughly with plenty of water and soap if needed. If skin irritation or rash occurs: Get medical advice/attention.
eye contact	:	Immediately rinse with clean running water for several minutes (at least 15 minutes is recommended). Remove contact lenses if present and easy to do. To ensure thorough washing, open the eyelids to allow water flush all over the eyeball/lid. Continue rinsing. If eye irritation persists: Get medical advice/attention.
ingestion	:	Rinse inside the mouth thoroughly with water and immediately get medical advice/attention. If possible, it is preferable to induce vomit by drinking plenty of water.

## 5. Fire fighting measures

Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Unsuitable extinguishing media	:	None to our knowledge
Firefighting instructions	:	Evacuate personnel to a safe area. Unauthorized persons are not admitted. Extinguish the fire from windward. Avoid raising dust. Prevent fire-fighting water from entering environment. Move undamaged containers from immediate hazard area if it can be done safely.

- Personal protection (Emergency response) : Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

## 6. Accidental release measures

### Personal Precautions, Protective Equipment and Emergency Procedures

- General measures : Wear suitable personal protection.  
Ventilate area and avoid creating airborne dust.

### Environmental precautions

- Environmental precautions : Be careful for the products not to spill out in rivers and not to cause influence on environment.

### Methods and Equipment for Containment and Cleaning up

- For containment : Carefully sweep scattered product into a suitable empty sealable container for disposal.
- Prevention Measures for Secondary Accidents : Ready appropriate extinguishing media.

## 7. Handling and storage

### Handling

- Technical measures : Handle product only in closed system or provide appropriate exhaust ventilation. Use explosion-proof equipment. Prevent the build-up of electrostatic charge. Wear suitable protective clothing, gloves and eye or face protection. Pay attention never forming dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Prevent shock/impact. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.
- Precautions for safe handling : Avoid contact with strong oxidisers.
- Hygiene measures : Wash ... thoroughly after handling.
- Local and general ventilation : Handle in a well ventilated place.

### Storage

- Storage conditions : Store in a cool, well-ventilated place. Keep away from heat. Keep out of direct sunlight.
- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment, ventilation equipment, and lighting equipment.

## 8. Exposure controls / Personal protection equipment

This product is subject to the laws of the country or territory in which it is used

- Appropriate engineering controls** : Install local exhaust ventilation to keep the concentration of airborne dust below the recommended limits.  
Install hand, eye wash facilities and safety shower.

### Protective equipment

- Respiratory protection : If exposure to dust is expected: wear dust mask in accordance
- Hand protection : Rubber gloves, etc.
- Eye protection : Wear appropriate protective glasses with side shields, safety goggles or facemask if required.
- Skin and body protection : Protective rubber gloves and clothing (apron/long sleeved clothing, boots, etc.) are recommended when handling this substance.

### 9. Physical and chemical properties

Physical state	:	Solid
Colour	:	white
Odour	:	odourless
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	No data available
Vapour pressure	:	No data available
Relative density	:	1.15-1.19
Relative gas density	:	No data available
Solubility	:	Water: insoluble Soluble in ethanol, MEK, ethyl acetate , etc.
Partition coefficient n-octanol/water (Log Pow)	:	Insoluble
Explosive limits (vol %)	:	No data available
Viscosity, kinematic:	:	No data available
Particle size	:	No data available
Particle size distribution	:	No data available
Particle shape	:	No data available
Particle aspect ratio	:	No data available
Particle specific surface area	:	No data available

### 10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	The product is stable at normal handling and storage conditions.
Possibility of hazardous reactions	:	Be careful of contact with oxidants.
Conditions to avoid	:	Overheating. Open flame. Sparks.
Incompatible materials	:	Oxidizing agent.
Hazardous decomposition products	:	No information available.

### 11. Toxicological information

<b>Acute toxicity (oral)</b>	:	classification not possible
<b>Acute toxicity (dermal)</b>	:	classification not possible
<b>Acute toxicity (inhalation)</b>	:	classification not possible

**Skin corrosion/irritation** : Not classified

<b>Polymethyl methacrylate (9011-14-7)</b>	
Skin corrosion/irritation	May cause skin irritation (MSDS-OHS)

**Serious eye damage/irritation** : Not classified

<b>Polymethyl methacrylate (9011-14-7)</b>	
Serious eye damage/eye irritation	May cause eye irritation (MSDS-OHS)

**Respiratory sensitization** : classification not possible  
**Skin sensitization** : Not classified

<b>Polymethyl methacrylate (9011-14-7)</b>	
Skin sensitization	Humans with previous exposure: May cause skin sensitization (MSDS-OHS)

**Germ cell mutagenicity** : classification not possible

**Carcinogenicity** : Not classified

<b>Polymethyl methacrylate (9011-14-7)</b>	
Carcinogenicity	IARC Group 3 (Not classifiable as to its carcinogenicity to humans)

**Reproductive toxicity** : classification not possible

**STOT-single exposure** : classification not possible

**STOT-repeated exposure** : classification not possible

**Aspiration hazard** : classification not possible

## 12. Ecological information

### Ecotoxicity

**Hazardous to the aquatic environment, short-term (acute)** : classification not possible

**Hazardous to the aquatic environment, long-term (chronic)** : classification not possible

### Persistence and degradability

No additional information available

### Bioaccumulative potential

No additional information available

### Mobility in soil

No additional information available

### Hazardous to the ozone layer

**Ozone** : classification not possible

## 13. Disposal considerations

Contaminated container and packaging : Completely remove the contents prior to disposal of empty containers and packaging in accordance with local/national/international regulations. Dispose of the product in accordance with local/national/international laws or regulations.

## 14. Transport information

### International Regulations

#### Overland transport(UN RTDG)

UN-No.(UN RTDG) : Not applicable

Proper Shipping Name (UN RTDG) : Not applicable

Packing group (UN RTDG) : Not applicable

Transport hazard class(es) (UN

RTDG)

#### Transport by sea(IMDG)

UN-No. (IMDG) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Packing group (IMDG) : Not applicable

Transport hazard class(es) (IMDG) : Not applicable

#### Air transport(IATA)

UN-No. (IATA) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Packing group (IATA) : Not applicable

Transport hazard class(es) (IATA) : Not applicable

#### Inland waterway transport(ADN)

UN-No. (ADN) : Not applicable

Proper Shipping Name (ADN) : Not applicable  
Packing group (ADN) : Not applicable  
Transport hazard class(es) (ADN) : Not applicable

**Rail transport(RID)**

UN-No. (RID) : Not applicable  
Proper Shipping Name (RID) : Not applicable  
Packing group (RID) : Not applicable  
Transport hazard class(es) (RID) : Not applicable

Marine pollutant : Not applicable  
Special transport precautions : Before transportation, make sure that there are no leaks in the container of the product. Put the cargo on board without falling, dropping or damage, and make sure to prevent it from collapsing.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

IBC code : Not applicable  
MFAG-No : It is recommended to handle in accordance with 171.  
Other information : No supplementary information available

**15. Regulatory information**

This product is subject to the laws of the country or territory in which it is used

**16. Other information**

Others : This Material Safety Data Sheet  
Applies to M-75 (7 types) kit components.

The information in this SDS was obtained from sources which we believe to be reliable, but no warranty or representation regarding the accuracy or completeness is hereby given. All materials may present unknown hazards and should be used with extreme caution. Final determination of suitability of any material is the sole responsibility of the user. Users must perceive information here only as an addition to the information collected by themselves and must decide for itself the suitability and completeness of information from all sources to ensure the correct use and disposal, the safety and health of employees and customers and environmental protection.