

Safety Data Sheet

1. Identification

Product identifier	Shodex STANDARD M-75
Other means of identification	Not available
Supplier (Manufacturer)	Resonac Corporation
Address	Tokyo Shiodome Building, 1-9-1, Higashi-Shimbashi, Minato-ku, Tokyo 105-7325, Japan
Department	Functional Chemicals Business Unit, Specialty Chemicals Department
Telephone	+81-3- 6263-8112
Email	rec_shodex@resonac.com
Emergency phone number	+65 3165 2217 (NCEC/Singapore)
Recommended use and restriction on use	
Recommended use	Calibration standard for size exclusion chromatography
Importer (SINGAPORE)	Company name: Resonac Asia Pacific Pte. Ltd. 4 Shenton Way #16-02/06, SGX Centre 2, Singapore 068807 Tel : +65-6836 6988

2. Hazards identification

GHS classification

Hazards not described are "Not classified", "Not applicable" or "Classification not possible".

GHS label elements including precautionary statements

Pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements	
Prevention	None
Response	None
Storage	None
Disposal	None

Other hazards which do not result in classification: Not available

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3. Composition/information on ingredients

Substance/Mixture	Substance	Concentration or concentration range	CAS No.
Ingredients			
2-Propenoic acid, 2-methyl-, methyl ester, comopolymer		100%	9011-14-7

4. First-aid measures

Description of necessary first aid measures

Inhalation	In case of inhaling a large amount of dust, immediately remove person to fresh air to rest and get medical advice/attention as needed. If vomiting occurs, turn the head to the side, and take care to prevent suffocation.
Skin contact	Thoroughly wash off with plenty of water or with soap as needed. If irritation occurs, get medical advice/attention as needed.
Eye contact	Immediately flush the eyes with clean running water for at least 15 minutes and get medical advice/attention. When washing the eyes, open the eyelids and move the eyeballs in all directions so that the water can be flushed to every corner of the eyeballs.
Ingestion	Wash mouth thoroughly with water and get medical advice/attention. It is recommended to give plenty of water for drinking and induce vomiting if possible.

Most important symptoms/effects, acute and delayed:

Not available

Indication of immediate medical attention and special treatment needed, if necessary:

Not available

5. Fire-fighting measures

Suitable extinguishing media	Spray water, foam, carbon dioxide, dry chemical.
Unsuitable extinguishing media	Not available
Specific hazards arising from the chemical	Not available
Special protective actions for fire fighters	Extinguish the fire from the upwind direction in case that harmful gases are generated. Do not allow unauthorized persons to enter the area around the fire. Evacuate unrelated personnel to a safe area.

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If possible, remove container from fire.

Avoid the spillage being spread due to strong water injection.

Surround fire-fighting wastewater by a dike for disposal.

Wear respiratory protective equipment in case that harmful gases are generated.

Wear appropriate protective equipment during working.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate protective equipment during working.
Environmental precautions	Take care to prevent the spillage from being discharged into rivers, etc. so as to avoid impact on the environment.
Methods and materials for containment and cleaning up	Immediately eliminate nearby ignition sources and hot objects. Sweep up the spillage and recover it into a sealed container. Prohibit unauthorized personnel from approaching.
Prevention measures for secondary disaster	Prepare an appropriate fire extinguisher in case of a fire.

7. Handling and storage

Precautions for safe handling	Wear appropriate protective equipment to prevent inhalation and avoid contact with eyes, skin and clothing. Wash hands and face etc. thoroughly after handling. Use explosion-proof equipment and pay full attention to avoid dust scattering. Grounding to prevent static electricity. Avoid exposure to strong oxidants. Handle in a well-ventilated place.
Conditions for safe storage, including any incompatibilities	Store in a cool and well-ventilated place. Avoid humidity, high temperature and direct sunlight. Keep container tightly closed.
Incompatible materials	Oxidant.

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8. Exposure controls/personal protection

Control Parameters/Occupational Exposure Limits

Singapore Not available

ACGIH Not available

Biological Limit Not available

Appropriate engineering control measures Seal the equipment as far as possible or set up local exhaust ventilation system to avoid direct exposure of operators.

Eye-washing and shower equipment should be installed near the workplace.

Individual protection measures, such as personal protective equipment (PPE)

Respiratory protection Wear dust masks or simple dust masks, etc. according to the situation.

Hand protection Wear rubber gloves, etc.

Eye protection Wear safety glasses (with side shields), protective glasses (goggle type), protective masks according to the situation.

Skin and body protection Wear protective clothing, and wear aprons, boots, etc. according to the situation.

9. Physical and chemical properties

Appearance (physical state, colour etc) White solid

Odour Odourless

pH Not available

Melting point/freezing point Melting point: None

Initial boiling point and boiling range Boiling point: None

Flash point Not available

Upper/lower flammability or explosive limits Upper: Not available;

Lower: Not available

Vapour pressure Not available

Vapour density Not available

Density and/or relative density 1.15~1.19g/cc

Solubility Insoluble in water.

Soluble in ethanol, methyl ethyl ketone, ethyl acetate, etc.

Partition coefficient: n-octanol/water Insoluble

Auto-ignition temperature Not available

Decomposition temperature Not available

Odour threshold Not available

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Evaporation rate	Not available
Flammability (solid, gas)	Not available
Viscosity	Not available

10. Stability and reactivity

Reactivity	Not available
Chemical stability	Stable under normal handling conditions.
Possibility of hazardous reactions	Take care not to contact with oxidants.
Conditions to avoid	Intense heat, open flames and sparks.
Incompatible materials	Oxidant.
Hazardous decomposition products	Not available

11. Toxicological information

Acute toxicity	
Oral:	Classification not possible
Dermal:	Classification not possible
Inhalation:	Classification not possible
Skin corrosion/irritation	Not classified May cause skin irritation (MSDS-OHS)
Serious eye damage/irritation	Not classified May cause eye irritation (MSDS-OHS)
Respiratory sensitisation	Classification not possible
Skin sensitisation	Not classified Previously exposed humans: May cause skin sensitization (MSDS-OHS)
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Not classified IARC Group 3: Not classifiable as to its carcinogenicity to humans
Reproductive toxicity	Classification not possible
Specific target organ toxicity (Single exposure)	Classification not possible
Specific target organ toxicity (Repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible

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12. Ecological information

Toxicity	Hazardous to the aquatic environment – acute hazard: Classification not possible Hazardous to the aquatic environment – chronic hazard: Classification not possible
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	Hazardous to the ozone layer: Classification not possible If it leaks out, marine organisms and birds mistake it for food and ingest it, which can lead to death. So it is necessary to consider leakage prevention.

13. Disposal considerations

Disposal methods:

Waste disposal of chemicals:

Entrust waste disposal to a waste processor licensed by the local government.

Waste disposal of contaminated packaging:

Empty containers should be disposed of after the contents are completely removed.

14. Transport information

UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard class(es)	Not applicable
Packing group	Not applicable
Marine pollutant (Yes/No)	No
Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	Not applicable
Special precautions	Prevent containers from overturning, falling and being damaged during loading. Prevent the cargo from collapsing. Be careful not to let it get wet.

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15. Regulatory information

Workplace Safety and Health Act: Applicable

16. Other information

Prepared in accordance with SS586: 2014

Abbreviations and acronyms:

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

Warranty:

The information provided in this SDS are based on currently available materials, information, and other data, however, we cannot assume any liability for the accuracy of the information contained. All chemical products may have unknown, potentially hazardous characteristics. It is recommended that handling should be done with caution.

The sign "-" included in the above means no relevant information.