

# MATERIAL SAFETY DATA SHEET

**Ref. No. SVC- 1900**

## 1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

**Trade Name** Styrene Monomer, stabilised.  
**Further Information** Contact Quality Control Manager.  
**Company Identification** Solv-Echem Ireland Ltd,  
Great Island Industrial Park,  
Ballincollig, Cork.  
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## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

### Chemical Characterization

<u>CAS No.</u>	<u>Description</u>	<u>EINECS No.</u>	<u>EU Number</u>
100-42-5	Styrene Monomer, stabilised	202-851-5	601-026-00-0.

## 3. HAZARD IDENTIFICATION

**Hazard Description** Xn Harmful.

### Information Concerning Particular Hazards for Human & Environment:

**R 10** Flammable.  
**R 20** Harmful by inhalation.  
**R 36/ 38** Irritating to eyes & skin.

## 4. FIRST AID MEASURES

**General Information** Symptoms of poisoning may even occur after several hours. Therefore, medical observation for at least 48 hours after the accident is necessary.

**After Inhalation** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult a doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.

**After Skin Contact** Immediately wash with water and soap and rinse thoroughly.

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*First Aid Measures continued...*

**Eye Contact**

Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor.

**Ingestion**

If symptoms persist consult a doctor.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable Extinguishing Agents**

Water with full jet.

**Protective Equipment**

Mount respiratory protective device.

**6. ACCIDENTAL RELEASE MEASURES**

**Personnel Safety Precautions**

Wear protective equipment. Keep unprotected persons away.

**Measures for Environmental Protection**

Do not allow to enter sewers/ surface or ground water.

**Measures for Cleaning/ Collecting**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste. Ensure adequate ventilation.

**7. HANDLING AND STORAGE**

**Handling**

**Information for Safe Handling**

Ensure good ventilation/ exhaustion at the workplace. Prevent formation of aerosols.

**Information about Fire & Explosion Protection**

Keep ignition sources away. Do not smoke. Protect against electrostatic charges.

**Storage**

**Requirements to be met by Storerooms & Receptacles**

No special requirements.

**Information about Storage in one Common Storage Facility**

Not required.

**Further Information about Storage Conditions**

Keep receptacle tightly sealed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Additional Information about Design of Technical Facilities

No further data.

### Ingredients with Limit Values that Require Monitoring at the Workplace:

100-42-5 Styrene Monomer, stabilised.

**MEL Short-term Value** 1080mg/m<sup>3</sup>, 250ppm.  
**Long-term Value** 430mg/m<sup>3</sup>, 100ppm.

**Additional Information** The lists valid during the making were used as basis.

### Personal Protective Equipment

#### General Protective & Hygienic Measures

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and the end of work. Avoid contact with the eyes and skin.

#### Respiratory Protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Protection of Hands

Protective gloves.

#### Eye Protection

Tightly sealed goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

*(approximate value – refer to SVC-190 specification)*

<b>Form</b>	Fluid.
<b>Odour</b>	Characteristic.
<b>Colour</b>	Colourless.
	<u>Value/Range Unit Method</u>
<b>Change in Condition</b>	
<b>Melting Point/ Melting Range</b>	- 30.7°C.
<b>Boiling Point/ Boiling Range</b>	145.2°C.
<b>Flash Point</b>	31°C.
<b>Ignition Temperature</b>	480°C.
<b>Danger of Explosion</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
<b>Lower Explosion Limits</b>	1.2 Vol %.
<b>Upper Explosion Limits</b>	8.9 Vol %.
<b>Vapour Pressure</b>	at 20°C 6 hPa.

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*Physical and Chemical Properties continued...*

<b>Density</b>	at 20°C	0.906g/cm <sup>3</sup> .
<b>Solubility in/Miscibility with Water</b>	at 20°C	0.24g/l.
<b>pH Value</b>	Neutral.	
<b>Viscosity Dynamic</b>	at 25°C	0.73mPas.

## 10. STABILITY AND REACTIVITY

**Thermal Decomposition/ Conditions to Avoid**

No decomposition if used according to specifications.

**Dangerous Reactions**

No dangerous reactions known.

**Dangerous Decomposition Products**

No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**LD/LC<sub>50</sub> values relevant for Classification**

	100-42-5	Styrene Monomer, stabilised.
<b>Oral:</b>	LD <sub>50</sub> :	5000mg/kg (rat).
<b>Inhalative:</b>	LC <sub>50</sub> / 4h:	24mg/l (rat).
<b>Primary Irritant Effect</b>		
<b>Skin Contact</b>		Irritant to skin and mucous membranes.
<b>Eye Contact</b>		Irritating effect.
<b>Sensitization</b>		No sensitizing effects known.

## 12. ECOLOGICAL INFORMATION

**General Notes**

Water hazard Class 2 (German Regulations) (Assessment by list): Hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

## 13. DISPOSAL CONSIDERATIONS

**Product:**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned Packaging**

**Recommendation**

Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

### Land Transport ADR/ RID (cross-border)

<b>ADR/ RID Class</b>	3 Flammable Liquids.
<b>Item</b>	31c.
<b>Danger Code (Kemler)</b>	39.
<b>UN Number</b>	2055.
<b>Hazard Label</b>	3.
<b>Description of Goods</b>	2055 Styrene Monomer, inhibited.

### Maritime Transport IMDG

<b>IMDG Class</b>	3.3.
<b>Page</b>	3381.
<b>UN Number</b>	2055.
<b>Packaging Group</b>	III.
<b>EMS Number</b>	3-07.
<b>MFAG</b>	310.
<b>Marine Pollutant</b>	Yes (P).
<b>Proper Shipping Name</b>	Styrene Monomer, inhibited.

### Air Transport ICAO-TI and IATA-DGR

<b>ICAO/ IATA Class</b>	3.
<b>UN/ ID Number</b>	2055.
<b>Packaging Group</b>	III.
<b>Proper Shipping Name</b>	Styrene Monomer, inhibited.

## 15. REGULATORY INFORMATION

### Labelling According to EU Guidelines

The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

### Code Letter & Hazard Designation of Product

**Xn** Harmful.

### Risk Phrases

**R 10** Flammable.  
**R 20** Harmful by inhalation.  
**R 36/ 38** Irritating to eyes and skin.

### Safety Phrases

**S 2** Keep out of reach of children.  
**S 23** Do not breathe gas/ fumes/ vapours/ spray.

*Regulatory Information continued...*

**National Regulations:**

**Technical Instructions (air)**

<u>Class</u>	<u>Share in %</u>
II	100.00.

**Water Hazard Class**

Water hazard class 2 (Assessment by list): hazardous for water.

**Relevant Statutory Instruments**

**1972/ 10**

Dangerous Substances Act, 1972.

**S.I. 1980/ 235**

Dangerous Substances (Conveyance of Scheduled Substances by Road) (Trade or Business Regulations, 1980.

**S.I. 1980/236**

Dangerous Substances Act, 1972 (Part IV Declaration) Order, 1980.

**S.I. 1986/267**

Dangerous Substances Act, 1972 (Part IV Declaration) Order 1980.

**S.I. 1986/268**

Dangerous Substances (Conveyance of Scheduled Substances by Road) (Trade or Business) (Amendment) Regulations, 1986.

**S.I. 1986/269**

Dangerous Substances (European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) Regulations, 1986.

**S.I. 1994/445**

Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulation, 1994.

**16. OTHER INFORMATION**

**Revisions Highlighted: 0**  
**SDS Distribution:**

This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters. The information is based on Solv-Echem Ireland Ltd's current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.