



TOSOH

SDS No. A4470300002 EX

# SAFETY DATA SHEET

## ( SDS )

The date of preparation      February 26, 2008  
 Revised date                      July 31, 2014

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE SUPPLIER

Product Name                      TSKgel Standard Polystyrene  
 Manufacturer                      TOSOH CORPORATION  
 Address                              3-8-2, SHIBA, MINATO-KU, TOKYO 105-8623, JAPAN

Recommended use and restrictions on use  
 General industrial products

### 2. HAZARD IDENTIFICATION

#### GHS classification

Flammable gases:	Not applicable
Oxidizing gases:	Not applicable
Gases under pressure:	Not applicable
Flammable liquids:	Not applicable
Flammable solids:	Classification not possible
Oxidizing liquids:	Not applicable
Corrosive to metals:	Classification not possible

#### Acute toxicity

Oral:	Classification not possible
Dermal:	Classification not possible
Inhalation(Gases):	Not applicable
Inhalation(Vapours):	Not applicable
Inhalation(Dusts/Mists):	Classification not possible
Skin corrosion/Irritation:	Classification not possible
Serious eye damage/eye irritation:	Classification not possible

#### Sensitization

Respiratory:	Classification not possible
Skin:	Classification not possible
Germ cell mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
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

#### Aquatic environment

Acute hazard:	Classification not possible
Long-term hazard:	Classification not possible

Other hazards which do not result in GHS classification:

No information available

Important symptoms:

No information available

Summary of assumed emergency:

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Classification of the chemical substance or/mixture:

Single product

Chemical name or common name:

Polystyrene

Synonyms:

Polystyrol

Concentration or concentration range:

Chemical name or common name	Abbreviation	Concentration or concentration range	Reference number in Gazetted List in Japan		CAS No
			Japanese Chemical Substances Control Law (JCSCL)	Japanese Industrial Safety and Health Law	
Polystyrene	PS	99.9%	(6)-120	Existing chemical substances	9003-53-6

Chemical formula:

<PS>

$C_4H_9[CH_2CH(C_6H_5)]_nH$

Component subject to regulation:

Ingredient	Japanese Industrial Safety and Health Law	Japanese PRTR Law (Pollutant Release and Transfer Register)
PS	Not applicable to the substances for labelling/deliver of documents required in Japanese Industrial Safety and Health Law	Not applicable to the specified chemical substances of Japanese PRTR Law

PRTR Law shows the information for each chemical substances since April, 2010

Impurities and stabilizing additives which contribute to the classification of GHS:

No information available

### 4. FIRST-AID MEASURES

IF INHALED:

Remove a victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.

IF ON SKIN:

Wash skin with plenty of Water and soap. If any symptoms such as blister and pain occur: Get medical advice, as required.

IF IN EYES:

Immediately wash eyes with clean Water for at least 15 minutes. During washing eyes, open eyelids and wash so that Water can flow all over the eyes. Since eyeballs may be damaged, do not rub eyes or close eyes tightly. Immediately get medical attention.

Remove contact lenses, if present and not firmly fixed. Continue rinsing.

IF SWALLOWED:

Call a physician immediately. Rinse mouth.

Most important effects and symptoms:

No information available

Protection for first-aid responders:

First-aid responders should wear protective equipment such as rubber gloves and a closed goggle, etc.

Note to physician:

No information available

## 5. FIRE-FIGHTING MEASURES

Extinguishing media:

Dry chemical powder, foam, carbon dioxide, sand

Unsuitable extinguishing media:

Water spray may be used for cooling purposes, but Water jet flow should not be used for extinguishing fire.

Specific hazards arising from the chemical if burning:

No information available

Specific fire fighting measures:

Fight fire from upwind side.

Keep people away from around the fire generation site.

Cool the surroundings with Water spray to prevent surrounding facility temperature increase by radiation heat.

Take any appropriate measures so that the materials which may influence the environment are not washed away by the fire fighting Water.

Evacuate people to a safe place.

Special protective equipment for fire fighter:

During fire-fighting, wear heat resistance gloves, safety goggles, and breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep people away from around the leakage site by encircling it with a rope.

For handling during leakage, wear rubber gloves, safety glasses, and protective clothing surely.

Environmental precautions:

Exercise caution so as not to drain the leaked product into rivers, etc. but to minimize the adverse events on the environment.

Method of cleaning up:

Scoop or swipe the leaked product.

Store the collected products in stainless or plastic containers.

Prevention measures of secondary disaster:

Immediately remove the nearby ignition source, and prepare fire extinguishing agent.

## 7. HANDLING AND STORAGE

Handling

Appropriate engineering controls:

Wear protective gloves and safety glasses/ face shield.

Wash hands thoroughly after handling.

Never handle the container roughly, such as tumbling, dropping, impacting, or dragging.

Local and entire ventilation:

Use with local exhaust ventilated area.

General precautions:

No information available

Safe handling advice:

Same as the technical measures.

Avoid contact:

No information available

Hygiene measures:

No information available

#### Storage

Appropriate engineering controls:

Store in a well-ventilated, cool, and dark place, protected from direct sunlight.

Safe storage conditions:

4~35°C

Safe containers and packaging materials:

Use glass or plastic containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Facility measures

Install equipment to wash the hands and eyes nearby.

Administrative levels

Not established

Occupational Exposure Limits

Not established

Personal protective equipment

Respiratory protection:

Dust/mist filtering respirator, air-supplied mask, air respirator, etc.

Hand protection

Rubber protective gloves

Eyes protection:

Safety goggles

Skin and body protection:

Vinyl protective clothing, rubber protective boots

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid (Powder)
Colour:	White
Odour(Odour threshold):	Unknown
pH:	Not applicable
Melting point/Freezing point:	Unknown
Boiling point:	Unknown
Initial boiling point:	Unknown
Boiling range:	Unknown
Flash point:	Unknown

Evaporation rate:	Unknown
Flammability (solid, gas):	Unknown
Lower flammability or explosive limits:	Unknown
Upper flammability or explosive limits:	Unknown
Vapor pressure:	Unknown
Vapor density:	Unknown
Specific gravity (Relative density):	1.13( Specific gravity )
Solubility:	Unknown
Partition coefficient; n-octanol/Water:	Unknown
Auto-ignition temperature:	Unknown
Decomposition temperature:	Unknown
Viscosity:	Unknown
Other information:	No information available

## 10. STABILITY AND REACTIVITY

### Reactivity:

No information available

### Chemical stability:

Stable at ordinary storage and handling conditions

### Possibility of hazardous reactions:

Stable at ordinary storage and handling conditions

### Conditions to avoid:

No information available

### Incompatible materials:

No information available

### Hazardous decomposition products:

No information available

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

Unknown

### Skin corrosion/Irritation:

Unknown

### Serious eye damage/eye irritation:

Unknown

### Respiratory sensitization or Skin sensitization:

Unknown

### Germ cell mutagenicity:

Unknown

### Carcinogenicity:

Unknown

### Reproductive toxicity:

Unknown

Specific target organ toxicity - Single exposure:

Unknown

Specific target organ toxicity - Repeated exposure:

Unknown

Aspiration hazard:

Unknown

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish:

No information available

Crustacea:

No information available

Algae:

No information available

Persistence/Degradability:

No information available

Bioaccumulative Potential:

No information available

Mobility in soil:

No information available

Hazardous to the Ozone layer:

No information available

Other adverse effects:

Do not dispose into a general environment due to no data in many items.

## 13. DISPOSAL CONSIDERATIONS

Residual wastes:

Consign disposal to the disposal-specialized services approved by a prefectural governor in accordance with "Waste Management and Public Cleansing Law."

Contaminated containers and packaging:

In case of disposal of empty containers, remove contents completely beforehand. When disposal of the contaminated containers is consigned, consign to the industrial waste disposal-specialized collector or services approved by a prefectural governor.

## 14. TRANSPORT INFORMATION

Domestic regulations:

Refer to laws and regulation that are applied.

Special precautions:

No information available

Special precautions and conditions in transport:

Load so that there will be no tumbling, dropping or damaging, and securely conduct load collapse prevention.

Conduct transport in consideration of precautions during handling and storage.

## 15. REGULATORY INFORMATION

<PS>

Water Pollution Control Law, Article 3 of the Enforcement Ordinance, Section of Hydrogen Ion Concentration

Waste Management and Public Cleansing Law (Industrial Wastes)

Fire Defense Law, Designated Flammable Materials (Synthetic Resins)

## 16. OTHER INFORMATION

References

<PS>

In-house Measurement Data

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Contact for Description Contents

Please contact to the following our department.



TOSOH

Please contact to our customer services in your region for the product inquiries.

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