



Sewon Pricision & IND.

Material Safety Data Sheet

PMMA Diffuser Plate

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1. Identification

A. Product name	PMMA Diffusion Plate / DME Series
B. Recommended use and restriction on use	
Recommended use	Electronics, lighting, advertising, signage, product of the backlight unit.
Restrictions on use	No data.
C. Manufacturer/supplier information	
Company name	Sewon Precision & IND. Co., LTD.
Address	570 Byungdong-ri, Hanrim-myeon, Kimhae-city, Kyungnam, Korea.
Emergency phone number	+86-55-346-5700.

2. Hazards identification

A. Classification of the substance or mixture	Skin corrosion/irritation : category 2 Serious eye damage/eye irritation : category 2 Specific target organ toxicity(Single exposure) : category 3(Respiratory irritation)
B. Warning label elements, including precautionary statements	
Symbol	
Signal word	Warning
Hazard statement	H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation
Precautionary statement	
Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray P264 Wash... thoroughly after handling P271 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection
Response	P302+P352 IF ON SKIN: Wash with soap and water P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P312 Call a POISON CENTER or doctor/physician if you feel unwell P321 Specific treatment (see ... on this label) P332+P313 If skin irritation occurs: Get medical advice/attention P337+P313 If eye irritation persists get medical advice/attention P362 Take off contaminated clothing and wash before reuse
Storage	P403+P233 Store in a well ventilated place. Keep container tightly closed P405 Store locked up
Disposal	P501 Dispose of contents/container to.



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C. Other hazards which do not result in classification (NFPA)

Health	1
Fire	1
Reactivity	0

3. Composition/information on ingredients

Chemical name	Common names and synonyms	CAS No.	% Content
Poly(methyl Methacrylate)	PMMA, Methyl Methacrylate Polymer	9011-14-7	≥ 97 %
ETC	-	-	≤ 3%

4. First aid measures

A. Eye contact	<p>IF IN EYES: Rinse cautiously with water for several minutes.</p> <p>Remove contact lenses, if present and easy to do.</p> <p>Continue to wash</p> <p>If eye irritation persists, Get medical attention</p>
B. Skin contact	<p>Immerse in cold water, much of the area when the hot material, to eliminate the heat affected wash my please</p> <p>Receive emergency medical attention</p> <p>Remove contaminated clothing and shoes and isolate the contaminated area please</p> <p>Wash the skin and eyes on contact material flowing over immediately and 20 minutes in the water please</p> <p>Keep a slight contamination by skin contact area Proliferation</p> <p>If skin irritation occurs: Get medical attention</p> <p>Before use wash contaminated clothing off again</p>
C. Inhalation	<p>If exposed to dust or fumes, and clean air to remove the excess if you have a cough or other symptoms please seek medical attention</p> <p>If not breathing, give artificial respiration please</p> <p>If breathing is difficult give oxygen Keep</p>
D. Ingestion	<p>Receive emergency medical attention</p>
E. Notes to Physician	<p>Please be sure to take protective measures for the substances of medical personnel</p>

5. Fire fighting measures

A. Recommended(or prohibited) extinguishing media	<p>Use alcohol-resistant foam fire fighting related to this matter, carbon dioxide or water spray</p> <p>Use a dry sandy soil during digestion or suffocation</p>
B. Specific hazard from chemical material	<p>Very toxic while burning and irritation can be caused by thermal decomposition or combustion, and a gas</p> <p>Containers may explode when heated</p> <p>Can take part, but not easily ignited</p> <p>Non-flammable, but the Taj itself can cause a corrosive substance / toxic fumes when heated to decomposition</p>
C. Extinguishments	<p>Wear appropriate protective structure shall</p> <p>Keep out of the area to keep a safe distance digestion</p> <p>Please note shipping may be melted so</p> <p>For the disposal of the digestive parser street gutters and please do not scatter material</p> <p>Extinguishing tank fire from maximum distance or use unmanned Keep fire fighting equipment</p>



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C. Extinguishments

Evolved after digestion tank fire cool containers with plenty of water please

Pressure relief device from the tank fire treble or discoloration of tank immediately if you please step aside

Caught in a flame of fire from the tanks withdrew tanks please

For massive fire tank fire extinguishing equipment unattended ride if available and unavailable please leave bullhorn

6. Accidental release measures

A. Necessary actions to protect human health

Follow the preventive protection measures protest to wipe spills immediately

Remove all sources of ignition

Stop leak if without risk please

Wear suitable protective clothing Do not touch damaged containers or the leaked water

Covered with a plastic sheet to prevent spreading

Note that the materials and conditions to avoid

Avoid breathing (dust, fumes, gas, vapor, mist, spray)

B. Necessary actions to protect the environment

Number, please avoid entering into sewers, basements, enclosed space

C. Purification and removal methods

Absorb the spill with inert material (eg dry sand or earth)

Please insert a chemical waste container

To absorb the liquid and contaminated areas with water and detergent to wash

7. Handling and storage

A. Safety handling

Products may remain even after container is emptied. Follow all MSDS / label precautions

Use care in handling / storage

Open carefully before opening the cap

Stop the long-term or continuous skin contact

Note that the materials and conditions to avoid

Work with engineering controls and personal protective equipment see

Avoid breathing (dust, fumes, gas, vapor, mist, spray)

Wash thoroughly after handling the treated area please

Use only outdoors or in a well-ventilated area

B. Storage

Drain completely and appropriately revert immediately to prevent deureon regulator is empty drums or bass please properly disposed

Store in tightly closed containers in a well-ventilated place

8. Exposure control and personal protection

A. Exposure limits and biological exposure limits of chemical

Korea	No data
ACGIH	No data
Biological exposure limits	No data

B. Enginnering management

Keep ventilation occurs if the dust, fumes or mist during operation, to keep below exposure limits of air pollution

Install the washing facilities and safety shower facilities storing or using this material is

C. Personal protection equipment

Respiratory protection	Wear respirator certification of Korea Occupational Safety and Health Agency meet the physical and chemical properties of the material is exposed
Eyes protection	No data
Hands protection	No data



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Human body protection No data

9. Physical and chemical properties

A. Appearance	
State	Solid.
Color	Natural Color (Color by additive), semi-transparent.
B. Odor	Very low odor
C. Odor threshold	No data
D. pH	No data
E. Melting/freezing point	150 °C
F. Initial boiling point or boiling range	No data
G. Flash point	No data
H. Evaporation rate	No data
I. Flammability(solid, gas)	No data
J. Upper/lower flammability or explosive limits	-/-
K. Vapor pressure	No data
L. Solubility	Insolubility
M. Vapor density	No data
N. Relative density	1.15-1.19
O. Partition coefficient: n-octanol/water	Insolubility.
P. Auto-ignition temperature	304 °C
Q. Decomposition temperature	No data
R. Viscosity	No data
S. Molecular weight	No data

10. Stability and reactivity

A. Chemical stability and toxicant generation possibility during reaction	Containers may explode when heated Can take part, but not easily ignited Nonflammable Taj, but the material itself can cause corrosive / toxic fumes when heated to decomposition In case of fire may cause irritation, corrosive, toxic gas
B. Prohibited conditions	Heat, sparks, flame ignition source
C. Prohibited materials	Combustible materials, reducing materials
D. Toxicant during decomposition	Very toxic while burning and irritation can be caused by thermal decomposition or combustion, and a gas Corrosive / toxic fumes

11. Toxicological information

A. Information on the likely routes of exposure	No data
B. Delayed and immediate effects and chronic effects from short or long term exposure	
Acute toxicity	
Oral	No data
Dermal	No data
Inhalation	No data
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Causes eye irritation
Respiratory sensitization	No data



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Skin sensitization	No data
Carcinogenicity	No data
Industrial safety and health act (Kor.)	No data
Department of Labor notice (Kor.)	No data
IARC	Group 3
OSHA	No data
ACGIH	No data
NTP	No data
EU CLP	No data
Germ cell mutagenicity	No data
Reproductive toxicity	No data
Specific target organ systemic toxicity (single exposure)	Inhalation Irritating to pray
Specific target organ systemic toxicity (repeated exposure)	No data
Aspiration hazard	No data

12. Ecological information

A. Hazardous to the aquatic environment	
Fish	No data
Crustacea	No data
Algae	No data
B. Persistence and degradability	
Persistence	No data
Degradability	No data
C. Bioaccumulative potential	
Biodegradability	No data
Bioaccumulation	No data
D. Mobility in soil	No data
E. Other adverse effects	No data

13. Disposal considerations

A. Disposal	If specified in the Waste Management Act Dispose of contents and container in accordance with the regulations.
B. Disposal cautions	(As specified in the relevant legislation) Dispose of the contents of the container

14. Transport information

A. UN No.	No UN transportation hazard class
B. UN proper shipping name	Not applicable
C. Transport hazard classes	Not applicable
D. Packing group, if application	Not applicable
E. Environmental hazards	No data
F. Special precautions for user	
Emergency management type of fire	Not applicable
Emergency management type of leak	Not applicable

15. Regulatory information

A. Industrial safety and health act (Korea)	Not applicable
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B. Toxic chemical substance subject to management act (Korea)	Not applicable
C. Hazardous material safety act (Korea)	Not applicable
D. Wastes control act (Korea)	Not applicable
E. Other internal and foreign acts	
Korea	
Persistent organic pollutant control act.	Not applicable
Foreign	
US (OSHA)	Not applicable
US (CERCLA)	Not applicable
US (EPCRA 302)	Not applicable
US (EPCRA 304)	Not applicable
US (EPCRA 313)	Not applicable
US (Rotterdam convention)	Not applicable
US (Stockholm document)	Not applicable
US (Montreal protocol)	Not applicable
EU (Classification)	Not applicable
EU (Risk phrases)	Not applicable
EU (Safety phrases)	Not applicable

16. Additional information

A. References

The Chemical Database, The Department of Chemistry at the University of Akron (State)
Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>) (B. Odor)
The Chemical Database, The Department of Chemistry at the University of Akron (E. Melting/freezing point)
Corporate Solution From Thomson Micromedex (N. Relative density)
The Chemical Database, The Department of Chemistry at the University of Akron (P. Auto-ignition temperature)

B. Creation date 2014-04-22

C. Revision No. and date

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D. Etc

This document is modified from KOSHA's MSDS.