



# Material Safety Data Sheet


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## Section 1 - Product and Company Identification

Product name : p-Toluenesulfonamide	
Other names : PASAM; 4-Methylbenzenesulfonamide; P-Tosylamide	
Product use :	
Supplier's name : San Fu Chemical Co., Ltd., Shan Hua Plant	
Supplier's address : 340 Hsiao Hsin Li, Shan Hua Town, Tainan Hsien, Taiwan, R.O.C.	
Supplier's phone : 06-5837608	Emergency phone : 06-5837608
FAX. : 06-5839498	

## Section 2 - Hazards Identification

Classification :	
1. Flammable Solid	Category 2
2. Acute Toxicity	Category 2
3. Skin Corrosion/Irritation	Category 2
4. Serious Eye Damage/Eye Irritation	Category 2B
The Most Important Hazards and effect	
Label element :	
■ Hazard symbol : Flame	
	
■ Signal word : Warning	
Hazard statement :	
1. Flammable solid	
2. Toxic if swallowed	
3. Cause minor skin irritation	
4. Cause eye irritation	
Precautionary statement :	
1. Avoid contact with heat, spark, open flame or other source of ignition.	
2. Do not inhale gas, vapor, dust, mist	
3. If contact with eyes, flush with plenty of water and summon a doctor immediately.	
4. Wear proper protective clothing/gloves/safety goggles/mask	
Others Hazard : --	

## Section 3 - Composition/Information On Ingredients

pure substance :

Chemical name : p-Toluenesulfonamide
Synonyms : PASAM; 4-Methylbenzenesulfonamide; P-Tosylamide
CAS No. : 70-55-3
Ingredient contributing to the hazard(%) : >99%



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## Section 4 - First Aid Measures

The First-aid Information : <ul style="list-style-type: none"><li>■ Inhalation : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.</li><li>■ Skin Contact : Immediately flush plenty of water, and remove the contaminated clothing.</li><li>■ Eye Contact : Flush eyes with plenty of water. See an eye specialist.</li><li>■ Ingestion : If swallowed, wash out mouth with water or milk provided person is conscious. Call a physician.</li></ul>
The Most Important Symptoms and Hazardous Effects : --
Protection of First-aiders : --
Notes to a Physician : Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

Extinguishing Media : water spray, dry chemical, carbon dioxide, or chemical foam
Specific Hazards when Fire-fight : Emits toxic fumes under fire conditions
Specific Fire-fighting Procedure : No specific request.
Specific Protection of Firefighters : Do not stay in dangerous zone without wearing self-contained breathing apparatus and protective clothing.

## Section 6 - Accidental Release Measures

Personal Precautions : <ol style="list-style-type: none"><li>1. Wear proper protective gears.</li><li>2. Restrict Access.</li><li>3. Deny entry if not necessary.</li><li>4. Local ventilation system should be enforced.</li></ol>
Environmental Precautions : <ol style="list-style-type: none"><li>1. Stay away from flames, spark, and any other source of ignition.</li><li>2. Try to stop leak if safe to do so.</li></ol>
Methods for Cleaning up : <ol style="list-style-type: none"><li>1. Vacuum or sweep up spill and place into a suitable disposal container.</li><li>2. Avoid dusts generation.</li><li>3. Well ventilation.</li></ol>

## Section 7 - Handling and Storage

Handling : <ol style="list-style-type: none"><li>1. Wash hands thoroughly after handling.</li><li>2. Remove the contaminated clothes. Clean thoroughly before reuse.</li><li>3. Well ventilation.</li><li>4. Avoid contact with eyes, skin, and cloths.</li><li>5. Avoid ingestion and inhalation.</li></ol>
Storage : <ol style="list-style-type: none"><li>1. Store in a cool, dry, and well-ventilated place.</li><li>2. Keep container tightly closed.</li><li>3. Stay away from the incompatible materials.</li></ol>



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## Section 8 - Exposure Controls & Personal Protection

Engineering measures :			
1. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			
2. Use adequate ventilation to keep airborne concentrations low.			
Control parameters			
TWA	STEL	Ceiling	Biological standards
--	--	--	--
Personal protective equipment :			
■ Respiratory Protection : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limited are exceeded or if irritation or other symptoms are experienced.			
■ Hand Protection : Wear protective gloves.			
■ Eye Protection : Wear chemical splash goggles.			
■ Skin and Body Protection : Wear appropriate protective clothing to prevent skin exposure.			
Hygiene measures : --			

## Section 9 - Physical & Chemical Properties

Appearance : crystalline powder	Odor : --
Color : white	Melting Point: 136-139.5°C
pH value : --	Boiling point/boiling range : 221°C
Flammability: --	Flash point : 202°C
Decomposition temp : --	Test method : close
Auto ignition temp : --	Explosion properties : --
Vapor pressure : --	Vapor density : --
Density : --	Solubility : 0.32 g/100ml (25 °C)
log Kow : --	Evaporation Rate : --

## Section 10 - Stability & Reactivity Data

Stability : Stable under normal temperatures and pressures.
Possible hazardous reactions under specific conditions : --
Conditions to avoid : flames, sparks, other source of ignition, incompatible materials
Materials to avoid : strong bases, strong oxidizing agents
Hazardous decomposition products : Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide, nitrogen

## Section 11 - Toxicological Information

Route of exposure : Inhalation 、 Skin 、 Eye 、 Ingestion
Symptoms : irritation or sensitization, respiratory system and digestive system irritation , nausea,



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vomiting, diarrhea
Immediate Toxicity : <ol style="list-style-type: none"><li>1. Skin : May cause skin irritation or sensitization</li><li>2. Inhalation : May cause respiratory system irritation, or difficulty in breathing.</li><li>3. Eye : May cause eye irritation or sensitization.</li><li>4. Ingestion : May cause digestive system irritation , nausea, vomiting, diarrhea<ul style="list-style-type: none"><li>● LD<sub>50</sub>:250 mg/kg (Intraperitoneal injection, mouse)</li><li>● LC<sub>50</sub>: --</li></ul></li></ol>
Specific effects : --

## Section 12 - Ecological Information

Ecotoxicology : <ul style="list-style-type: none"><li>■ LC<sub>50</sub>(fish) : --</li><li>■ EC<sub>50</sub>(Aquatic Invertebrates) : --</li><li>■ Bioconcentration factor (BCF) : --</li></ul>
Persistence and degradability : <ul style="list-style-type: none"><li>■ Half-Life (Air) : --</li><li>■ Half-Life (Water surface) : --</li><li>■ Half-Life (Groundwater) : --</li><li>■ Half-Life (Soil) : --</li></ul>
Bioaccumulative potential : --
Mobility in soil : --
Other adverse effects : --

## Section 13 - Disposal Considerations

Methods of disposal : Dispose of in a manner consistent with federal, state, and local regulations.
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## Section 14 - MSDS Transport Information

UN classification number : --
Proper D.O.T Shipping Name : --
Hazard Class : --
Packing Group : --
Marine pollution : --
Specific precautionary transport measures and conditions : --

## Section 15 - Regulatory Information

Regulations : <ol style="list-style-type: none"><li>1. Regulations for Labor Safety and Health Installations</li><li>2. Regulations for Chemical Hazard Communication</li><li>3. Road Traffic Safety Regulations</li><li>4. Industrial Waste Storage and Disposal Regulations and Facility Standards</li></ol>
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|---|
| 5. Organic Solvent Poisoning Prevention Regulations   |
| 6. Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Regulations. |

## Section 16 - Other Information

Literature references	1. CHEMINFO Database, CCINFO Disc, 2005-3 2. HAZARDTEXT Database, TOMES PLUS CD-ROM, Vol. 65, 2005 3. RTECS Database, TOMES PLUS Disc, Vol.65, 2005 4. HSDB Database, TOMES PLUS Disc, Vol.65, 2005 5. ChemWatch Database, 2005-1		
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