

# MSDS for 4,4'-DIAMINODIPHENYL SULFONE(44DDS)

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

4,4'-DIAMINODIPHENYL SULFONE

## Section 1 - Chemical Product and Company Identification

**MSDS Name** 4,4'-DIAMINODIPHENYL SULFONE  
**Synonyms** Dapsone, DDS, 4,4'-Sulfonyldianiline

**Manufacturer's Name** Atul Limited – PP Site

**Manufacturer's Address** P.O. ATUL, Dist: Valsad  
Gujarat - 396020  
India

**Emergency Telephone No.:** ++91 2632 233204, 233205, 233621  
**Fax No.:** ++91 2632 233639, 233053

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	EINECS#
80-08-0	4,4'-DIAMINODIPHENYL SULFONE	201-248-4

Hazard Symbols: XN

Risk Phrases: 22

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Harmful if swallowed. Cancer suspect agent.

### POTENTIAL HEALTH EFFECTS

**Eye** May cause eye irritation.

**Skin** May cause skin irritation.

**Ingestion** Harmful if swallowed.

**Inhalation** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

**Chronic** Not available.

## Section 4 - First aid Measures

**Eyes** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

**Skin** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion** Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

**Inhalation** Remove from exposure to fresh air immediately.

**Notes to Physician**

### Section 5 - Fire Fighting Measures

**General Information** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media** In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

### Section 6 - Accidental Release Measures

**General Information** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

### Section 7 - Handling and Storage

**Handling** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

**Storage** Store in a cool, dry place. Keep container closed when not in use.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls** Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eyes** Wear safety glasses and chemical goggles if splashing is possible.

**Skin** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing** Wear appropriate protective clothing to minimize contact with skin.

**Respirators** Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

### Section 9 - Physical and Chemical Properties

<b>Physical State</b>	Crystalline powder
<b>Appearance</b>	white - beige
<b>Odor</b>	Not available.
<b>pH</b>	Not available.

<b>Vapor Pressure</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Boiling Point</b>	Not available.
<b>Freezing/Melting Point</b>	173.00 - 178.00 deg C
<b>Autoignition Temperature</b>	Not available.
<b>Flash Point</b>	Not available.
<b>Explosion Limits, lower</b>	Not available.
<b>Explosion Limits, upper</b>	Not available.
<b>Decomposition Temperature</b>	
<b>Solubility in water</b>	insoluble
<b>Specific Gravity/Density</b>	
<b>Molecular Formula</b>	C12H12N2O2S
<b>Molecular Weight</b>	248.30

### Section 10 - Stability and Reactivity

**Chemical Stability** Stable under normal temperatures and pressures.

**Conditions to Avoid** Incompatible materials, strong oxidants.

**Incompatibilities with Other Materials** Strong oxidizing agents.

**Hazardous Decomposition Products** Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

**Hazardous Polymerization** Has not been reported.

### Section 11 - Toxicological Information

**RTECS#** CAS# 80-08-0: BY8925000

**LD50/LC50** CAS# 80-08-0: Oral, mouse: LD50 = 250 mg/kg; Oral, rat: LD50 = 1 gm/kg; Skin, rabbit: LD50 = >4 gm/kg.

**Carcinogenicity** 4-AMINOPHENYL SULFONE, 97% - IARC: Group 3 carcinogen See actual entry in RTECS for complete information.

### Section 12 - Ecological Information

### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:-	-	-	Not regulated.
Hazard Class:-	-	-	-
UN Number:-	-	-	-
Packing Group:-	-	-	-

## Section 15 - Regulatory Information

European/International Regulations  
European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 22 Do not breathe dust.

WGK (Water Danger/Protection)

CAS# 80-08-0: No information available.

United Kingdom Occupational Exposure Limits

Canada

CAS# 80-08-0 is listed on Canada's DSL List.

CAS# 80-08-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 80-08-0: OEL-FINLAND;Carcinogen

OEL-RUSSIA:STEL 5 mg/m3

US FEDERAL

TSCA

CAS# 80-08-0 is listed on the TSCA inventory.

## Section 16 - Additional Information

MSDS Creation Date	7/16/1996
Revision #0 Date	Original.

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