



## KSCL

### MATERIAL SAFETY DATA SHEET (MSDS)

#### SECTION 1: Identification

##### 1.1 Product identifiers

**Product Name :** 4 Fluorophenol  
**Cat No.:** AC119560000; AC119560250; AC119561000  
**CAS No. :** 371-41-5

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended uses :** Laboratory chemicals  
**Uses advised against:** Food, drug, pesticide or biocidal product use.

##### 1.3 Details of the supplier of the safety data sheet

**Company :** Krishna Solvechem Ltd.  
B/503, Shayog, S. V. Road,  
Kandivali (West), Mumbai – 400067. India.  
**Telephone :** +91-22-6123 0222  
**Email :** [exports@kscl.co.in](mailto:exports@kscl.co.in)

##### 1.4 Emergency telephone number

**Emergency Phone :** +91-8657457330 (10.00am - 7.00pm) [Office hours]

#### SECTION 2: Hazards identification

##### 2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	(Category 4)
Acute dermal toxicity	(Category 4)
Acute inhalation toxicity – dusts and mists	(Category 4)
Skin corrosion/Irritation	(Category 2)
Serious Eye damage/Eye irritation	(Category 2)
Specific target organ toxicity (Single exposure)	(Category 3)
Target organs – Respiratory system	
Combustible dust	yes

##### 2.2 Label elements

**Pictogram :**



**Signal word**

Warning

**Hazard statement (s)**

May form combustible dust concentrations in air



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### Precautionary statement (s)

Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation  
Harmful if swallowed, in contact with skin or if inhaled

### Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Do not eat, drink or smoke when using this product

#### Inhalation :

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

#### IF ON SKIN (or hair):

If skin irritation occurs: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse

#### Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

#### Ingestion

IF SWALLOWED : Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth

#### Storage:

Store in a well-ventilated place. Keep container tightly closed  
Store locked up



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	<b>Disposal:</b> Dispose of contents/container to an approved waste disposal plant
<b>Hazards not otherwise classified (HNOC)</b>	None identified

### SECTION 3: Composition / information on ingredients

#### 3.1

Component	CAS-No	Weight %
Phenol, 4-fluoro-	371-41-5	>95

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>If inhalation :</b>	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
<b>In case of skin contact :</b>	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
<b>In case of eye contact :</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion :</b>	Do NOT induce vomiting. Call a physician or poison control center immediately.
<b>4.2 Most important symptoms and effects :</b>	No information available
<b>4.3 Notes to Physician :</b>	Treat symptomatically

### SECTION 5: Firefight effects

#### 5.1 Extinguishing media

<b>Suitable extinguishing media :</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
<b>Unsuitable Extinguishing Media: :</b>	No information available
<b>5.2 Flash Point : Method :</b>	68 °C / 154.4 °F No information available



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<b>Autoignition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available
<b>Specific Hazards Arising from the Chemical :</b>	Combustible material. Containers may explode when heated.
<b>Hazardous Combustion Products :</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrocarbons. Gaseous hydrogen fluoride (HF). Fluorine.

**5.4 Protective Equipment and Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors

**NFPA:**

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against static discharges

**6.2 Environmental precautions**

Should not be released into the environment. See section 12 for additional Ecological Information

**6.3 Methods and materials for containment and cleaning up**

Remove all sources of ignition. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Keep away from open flames, hot surfaces and sources of ignition. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance.



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### 7.2 Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases. Acid anhydrides. Acid chlorides.

## SECTION 8: Exposure controls/personal protection

### 8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### 8.2 Exposure controls

#### Personal protective equipment -

##### Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

##### 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 limits are exceeded or if irritation or other symptoms are experienced.

##### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice..

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid, beige
b) Odour	Characteristic
c) Odour Threshold	No information available
d) pH	5-6 5% aq. sol
e) Melting point / freezing point	44 - 49 °C / 111.2 - 120.2 °F
f) Initial boiling point and	No information available



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<b>boiling range</b>	
<b>g) Flash point</b>	68 °C / 154.4 °F
<b>h) Evaporation rate</b>	Not applicable
<b>i) Flammability (solid, gas)</b>	No information available
<b>j) Upper/lower flammability or explosive limits</b>	No data available No data available
<b>k) Vapour pressure</b>	No information available
<b>l) Vapour density</b>	Not applicable
<b>m) Specific Gravity</b>	No information available
<b>n) Solubility</b>	No information available
<b>o) Partition coefficient: n octanol/water</b>	No data available
<b>p) Auto-ignition temperature</b>	No information available
<b>q) Decomposition temperature</b>	No information available
<b>r) Viscosity</b>	Not applicable
<b>s) Molecular formula</b>	C6 H5 F O
<b>t) Molecular Weight</b>	112.1

### SECTION 10: Stability and Reactivity

<b>10.1 Reactive Hazard :</b>	Yes
<b>10.2 Chemical stability :</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions :</b>	None under normal processing.
<b>10.4 Conditions to avoid :</b>	Avoid dust formation. Incompatible products. Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
<b>10.5 Incompatible materials:</b>	Strong oxidizing agents, Strong bases, strong acids, Acid anhydrides, Acid chlorides
<b>10.6 Hazardous decomposition products :</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Hydrocarbons, Gaseous hydrogen fluoride (HF), Fluorine
<b>10.7 Hazardous Polymerization</b>	Hazardous polymerization does not occur



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### SECTION 11: Toxicological information

#### 11.1

#### Information on toxicological effects

#### Acute toxicity:

#### Product Information:

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol, 4-fluoro-	340 mg/kg (rat)	Not listed	Not listed

#### Toxicologically Synergistic Products

No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation :** Irritating to eyes, respiratory system and skin

**Sensitization:** No information available

**Carcinogenicity :** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Phenol, 4-fluoro-	371-41-5	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects:** No information available.

**Reproductive Effects:** No information available.

**Developmental Effects :** No information available.

**Teratogenicity:** No information available.

**STOT - single exposure :** Respiratory system

**STOT - repeated exposure:** None known

**Aspiration hazard :** No information available.

**Symptoms / effects, both acute and delayed:** No information available

**Endocrine Disruptor Information :** No information available

**Other Adverse Effects :** The toxicological properties have not been fully investigated.



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### SECTION 12: Ecological information

<b>12.1 Ecotoxicity:</b>	Do not empty into drains.
<b>12.2 Persistence and degradability:</b>	Soluble in water Persistence is unlikely based on information Available.
<b>Bioaccumulation/ Accumulation</b>	No information available
<b>12.3 Mobility:</b>	Will likely be mobile in the environment due to its water solubility.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

<b>14.1 UN number :</b>				
DOT : UN2811	TDG : UN2811			
IATA : UN2811	IMDG : UN2811			
<b>14.2 UN proper shipping name</b>				
DOT :	Toxic solid, organic, n. o. s.			
IMDG :	Toxic solid, organic, n. o. s.			
IATA :	Toxic solid, organic, n. o. s.			
IMDG :	Toxic solid, organic, n. o. s.			
<b>14.3 Transport hazard class(es)</b>	DOT: 6.1	TDG : 6.1	IMDG: 6.1	IATA: 6.1
<b>14.4 Packaging group:</b>	DOT: III	TDG : III	IMDG: III	IATA: III

### SECTION 15: Regulatory information

**15.1 United states of America Inventory:**

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
Phenol, 4-fluoro-	371-41-5	X	ACTIVE	-

**Legend:**









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