

Revision Date:18-11-2023 Date of printing: 19-11-2022

SAFETY DATA SHEET

SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1	Product identifiers		and of the company, and of		
	Product name	:	4-Fluorophenol		
	CAS-No.	:	371-41-5		
1.2	Relevant identified uses	of t	he substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Manufacture of substances.		
1.3	Details of the supplier of	the	safety data sheet		
	Company	:	Inventys Research Company Pvt LtdD-514, Kanakia Zillion, BKC Annex, (LBS Road Junction, CST Road, Near Kurla Bus Depot), Kurla West, Mumbai 400070. INDIA Tel:+91.22.714.00.200 Fax:+91.22.714.00.299 www.lnventys.ln		
1.4	Emergency telephone nu	ımb			
	Emergency Phone #	:	+91 22.714.00.200		
SEC	TION 2: Hazards identifica	tion			
2.1	Classification of the sub				
	Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.				
2.2	Label elements				
	Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Warning Hazard statement(s) H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.				
	Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.				

enq@InventyS.IN	Page 1 of 8	Mobile: +91.9619.666.333 Fax:
Office: +91.22.714.00.200		+91.22.714.00.299



Revision Date:18-11-2023 Date of printing: 19-11-2022

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements: None

Reduced Labeling (<= 125 ml)

Pictogram

❖

Signal word

l Warning

Hazard statement(s): none

Precautionary statement(s): none

Supplemental Hazard Statements : none

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms.	:	4-fluorophenol
Formula	:	C ₆ H ₅ FO
Molecular weight	:	112,10 g/mol
CAS-No	:	371-41-5
EC Number	:	206-736-0

Component	Classification	Concentration
4-fluorophenol		
CAS-No.: 371-41-5 EC-No.: 206-736-0	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3;	<= 100 %
	H302, H315, H319, H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact

lenses.

enq@InventyS.IN	Page 2 of 8	Mobile: +91.9619.666.333 Fax:
Office: +91.22.714.00.200		+91.22.714.00.299



Revision Date:18-11-2023 Date of printing: 19-11-2022

	If swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed
	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3	Indication of any immediate medical attention and special treatment needed
	No data available
SEC	TION 5: Firefighting measures
5.1	Extinguishing media
	Suitable extinguishing media Water Foam Carbon dioxide (CO2) Dry powder. Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
5.2	Special hazards arising from the substance or mixture
	Carbon oxides Hydrogen fluoride Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
5.3	Advice for firefighters
	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.4	Further information
	Remove container from danger zone and cool with water. Suppress (knock down)
	gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from
	contaminating surface water or the ground water system.
SEC	TION 6: Accidental release measures
6.1	Personal precautions, protective equipment and emergency procedures
	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
6.2	Environmental precautions
	Do not let product enter drains.
6.3	Methods and materials for containment and cleaning up
	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
6.4	Reference to other sections
<u> </u>	For disposal see section 13.



Revision Date:18-11-2023 Date of printing: 19-11-2022

7.1	Precautions for safe handling			
	Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures agains static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face afte working with substance. For precautions see section 2.2.			
7.2	Conditions for safe storage including any incompatibilities			
	Storage conditions Tightly closed. Dry.			
7.3	Specific end use(s)			
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated			
SEC	CTION 8: Exposure controls/personal protection			
8.1	Control parameters Ingredients with workplace control parameters			
8.2	Exposure controls			
0.2	Personal protective equipment			

Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Body Protection

Flame retardant antistatic protective clothing.

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Revision Date:18-11-2023 Date of printing: 19-11-2022

Respiratory protection

Recommended Filter type: Filter B-(P3)

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

	Do not let product enter drains.		
	SECTION 9: Physical ar	nd chemical properties	
9.1	Information on basic pl	hysical and chemical properties	
	a) Appearance	Form: solid	
	b) Odor	No data available	
	c) Odor Threshold	No data available	
	d) pH	No data available	
	e) Melting point/ freezing point	Melting point/range: 43 - 46 °C - lit.	
	f) Initial boiling point and boiling range	185 °C - lit.	
	g) Flash point	68 °C - c.c.	
	h) Evaporation rate	No Data Available	
	i) Flammability (solid, gas)	No Data Available	
	j) Upper/lower flammability or explosive limits	No Data Available	
	k) Vapor pressure	No Data Available	
	I) Vapor density	No Data Available	
	m) Relative density	No Data Available	
	n) Water solubility	No Data Available	
	o) Partition coefficient: n octanol/water	No Data Available	
	p) Auto-ignition temperature	No Data Available	
	q) Decomposition temperature	No Data Available	
	r) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available	
	s) Explosive properties	No Data Available	
	t) Oxidizing properties	No Data Available	

enq@InventyS.IN	Page 5 of 8	Mobile: +91.9619.666.333 Fax:
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Revision Date:18-11-2023 Date of printing: 19-11-2022

9.2	Other safety information
	No data available
	SECTION 10: Stability and reactivity
10.1	Reactivity
	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
10.2	Chemical stability
	The product is chemically stable under standard ambient conditions (room temperature) .
10.3	Possibility of hazardous reactions
	Violent reactions possible with: Oxidizing agents strong alkalis Strong acids Acid anhydrides acid halides
10.4	Conditions to avoid
	Strong heating.
10.5	Incompatible materials
	No data available
10.6	Hazardous decomposition products
	In the event of fire: see section 5
SECT	ION 11: Toxicological information
11.1	Information on toxicological effects
	Acute toxicity LD50 Oral - Rat - 340 mg/kg Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Remarks: (External MSDS)absorption Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity No data available Reproductive toxicity Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure Aspiration hazard

enq@InventyS.IN	Page 6 of 8	Mobile: +91.9619.666.333 Fax:
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Environmental Hazards

ADR/RID: no

14.5

4-Fluorophenol

Revision Date:18-11-2023 Date of printing: 19-11-2022

11.2 Additional Information RTECS: SL4550000 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. **SECTION 12: Ecological information** 12.1 **Toxicity** Toxicity to daphnia and other aquatic invertebrates EC50 - Tetrahymen pyriformis - $107 \, ext{mg/l}$ -48 h Remarks: (ECOTOX Database) Toxicity to bacteria microtox test EC50 - Photobacterium phosphoreum - 19,5 mg/l - 30 12.2 Persistence and degradability 12.3 Bio accumulative potential 12.4 Mobility in soil 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Other adverse effects Discharge into the environment must be avoided. **SECTION 13: Disposal considerations** Waste treatment methods 13.1 Product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions. **SECTION 14: Transport information** 14.1 **UN** number IMDG: ADR/RID: IATA: 14.2 UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods Transport hazard class(es) 14.3 ADR/RID: IMDG: IATA: **Packing Group** 14.4 ADR/RID: IMDG: IATA:

enq@InventyS.IN	Page 7 of 8	Mobile: +91.9619.666.333 Fax:
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IMDG Marine

pollutant: no

IATA: no



Revision Date:18-11-2023 Date of printing: 19-11-2022

14.6 Special Precautions for User

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Relevant changes since previous version

2. Hazards identification

Further information

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