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4-Fluorophenol

Revision Date:18-11-2023

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SAFETY DATA SHEET

1.1	Product identifiers	-	1				
	Product name	:	4-Fluorophenol				
	CAS-No.	:	371-41-5				
.2	Relevant identified use	s of	the substance or mixture and uses ac	lvised against			
	Identified uses	:	Laboratory chemicals, Manufacture of	substances.			
.3	Details of the supplier of the safety data sheet						
	Company	:	Inventys Research Company Pvt LtdE 514, Kanakia Zillion, BKC Annex, (LBS Road Junction, CST Road, Nea Kurla West, Mumbai 400070. INDIA T Fax:+91.22.714.00.299 www.Inventys.In	r Kurla Bus Depot),			
.4	Emergency telephone	numl	ber				
	Emergency Phone #	:	+91 22.714.00.200	~0			
SEC	TION 2: Hazards identific	atio	n	J			
2.1	Classification of the su	Classification of the substance or mixture					
	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 swallo H315 Causes skin irrita H319 Causes serious e H335 May cause respir	wed ation ye ii	ritation.				
	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.						
	P302 + P352 IF ON SK	IN:	ED: Call a POISON CENTER/ doctor Wash with plenty of water. EYES: Rinse cautiously with water	-			
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	Remove contact lenses,	if p	rese	ent and easy to do. Continue ri	nsing.
	Supplemental Hazard S	ater	men	ts: None	
	Reduced Labeling (<: Pictogram	= 12	25 m	nl)	
	Signal word Warning				
	Hazard statement(s): r	one			
	Precautionary statemen	t(s):	nor	ne	
2.3		ıbsta tive	ance	e/mixture contains no compone	ents considered to be either and very bioaccumulative (vPvB)
SEC	TION 3: Composition/info	mat	ion c	on ingredients	5
3.1	Substances				
	Synonyms.	:	4-f	fluorophenol	
	Formula	:	C ₆ F	H₅FO	
	Molecular weight	:	112	2,10 g/mol	
	CAS-No	:		1-41-5	
	EC Number	:	200	6-736-0	
	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; H302, H315, H319, H335	<= 100 %
	For the full text of the	H-SI	tater	ments mentioned in this Section	n, see Section 16.
SEC	TION 4: First aid measure				
4.1	Description of first aid n	eas	ures	5	
	4.1 Description of fire General advice	t ai	d m	easures	
		y da	ata s	sheet to the doctor in attendan	ce.
	After inhalation: fresh a In case of skin contae				
			e off	f immediately all contaminated	clothing. Rinse skin with
	In case of eye contac		with	h plenty of water. Call in ophth	almologist. Remove contact

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	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	FION 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	FION 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.
	Reference to other sections
6.4	

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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 against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.				
	For precautions see section 2.2.				
7.2	Conditions for safe storage including any incompatibilities				
1.2	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	TION 8: Exposure controls/personal protection				
	Control parameters				
0.1	Ingredients with workplace control parameters				
8.2	Exposure controls				
-	Personal protective equipment				
	Eye/face protection				
	Use equipment for eye protection tested and approved under appropriate				
	government standards such as NIOSH (US) or EN 166(EU). Safety glasses				
	Skin protection				
	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).				
	Full contact				
	Material: Nitrile rubber				
	Minimum layer thickness: 0,11 mm				
	Break through time: 480 min Material tested: KCL 741 Dermatril® L				
	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: <u>www.kcl.de</u>).				
	Splach contact				
	Splash contact Material: Nitrile rubber				
	Matarial, Nitrila rubbar				
	Material: Nitrile rubber				
	Minimum layer thickness: 0,11 mm				
	Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L				
	Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Body Protection				
	Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L				



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	•	pe: Filter B-(P3) ensure that maintenance, cleanin	g and testing of respiratory protective e producer. These measures have to b		
	Control of environme	ental exposure			
	Do not let product ente	r drains.			
	SECTION 9: Physical and chemical properties				
9.1	Information on basic physical and chemical properties Form: solid				
	a) Appearance				
	b) Odor	No data available			
	c) Odor Threshold	No data available	N N		
	d) pH	No data available	N		
	e) Melting point/ freezing point	Melting point/range: 43 - 46 °C - lit.	<u> </u>		
	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 ava Viscosity, dynamic: No data avail			
	s) Explosive properties	No Data Available			
	t) Oxidizing properties	No Data Available			
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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				
	Penroductive toxicity				
	Reproductive toxicity Specific target organ toxicity - single exposure				
	Specific target organ toxicity - single exposure				
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11.2	Additional Information		
	RTECS: SL4550000 Material is extremely destructive t	to tissue of the mucous mer	mbranes and unner respiratory
	tract, eyes, and skin., Cough, Sho		
	Other dangerous properties can n		,
	Handle in accordance with good ir		practice.
SECT	[ION 12: Ecological information		
12.1	Toxicity		
	Toxicity to daphnia and other aqu		etrahymen pyriformis - 107 mg/l -
	48 h Remarks: (ECOTOX Databas		10 5 // 20
	Toxicity to bacteria microtox test min	EC50 - Photobacterium pho	sphoreum - 19,5 mg/l - 30
12.2	Persistence and degradability		
12.3	Bio accumulative potential		<u>^</u>
12.4	Mobility in soil		
12.5	Results of PBT and vPvB assessm	ant	
12.5	This substance/mixture contains r		o he either persistent
		or very persistent and very	Dioaccumulative (VPVB) at
	bioaccumulative and toxic (PBT), elevels of 0.1% or higher.	or very persistent and very	Dioaccumulative (VPVB) at
12.6	bioaccumulative and toxic (PBT),	or very persistent and very	bioaccumulative (VPVB) at
12.6	bioaccumulative and toxic (PBT), elevels of 0.1% or higher.		bloaccumulative (VPVB) at
	bioaccumulative and toxic (PBT), levels of 0.1% or higher. Other adverse effects		
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	Special Precautions for User
	Further information Not classified as dangerous in the meaning of transport regulations.
<u>SECT</u>	ION 15: Regulatory information
15.1 9	Safety, health and environmental regulations/legislation specific for the
substa	ance or mixture
This m 1907/2	naterial safety data sheet complies with the requirements of Regulation (EC) No. 2006.
Natio	nal legislation
	o III: Directive 2012/18/EU of the European Parliament and of the Council on the control of accident hazards involving dangerous substances: Not applicable
	regulations
	ve work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or r national regulations where applicable.
	note of Dir 94/33/EC on the protection of young people at work.
	Chemical safety assessment
For thi	s product a chemical safety assessment was not carried out
SECTIO	ON 16: OTHER INFORMATION
	ext of H-Statements referred to under sections 2 and 3.
	Harmful if swallowed. Causes skin irritation.
	Causes serious eye irritation.
	May cause respiratory irritation.
Delaw	
	ant changes since previous version ards identification
Furthe	r information
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