

## **MATERIAL SAFETY DATA SHEET (MSDS)**

**SECTION 1: Identification** 

1.1 Product identifiers

Product Name: 4-Amino-3-fluorophenol

Cat No.: AC458310000; AC458310010; AC458310050

**CAS No.:** 399-95-1

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 Limited.

B/503, Sahayog, S. V. Road,

Kandivali (West), Mumbai – 400067. India.

**Telephone:** +91-22-6123 0222

**Email:** exports@kscl.co.in

1.4 Emergency telephone number

**Emergency Phone :** +91-8657457330

## **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)
Skin sensitization	(Category 1)
Carcinogenicity	(Category 1B)

2.2 Label elements

Pictogram:



Signal word Danger

Hazard statement (s) May cause an allergic skin reaction



Harmful if swallowed May cause Cancer

# Precautionary statement (s)

#### **Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Obtain special instruction before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wear protective gloves/protective clothing/eye protection/face protection

Contaminated work clothing should

Avoid breathing dust/fume/gas/mist/vapors/spray 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

#### Ingestion:

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

#### Storage:

Store locked up



Disposal:

Dispose of contents/container to an approved waste disposal

plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects.

# **SECTION 3: Composition / information on ingredients**

#### 3.1

Component	CAS-No	Weight %	
4-Amino-3-fluorophenol	399-95-1	>95	

## **SECTION 4: First aid measures**

11	Description	of first aid	MAGGILLAGE
4.1	DESCRIPTION	OI HISLAIU	measures

4.1	Description of first aid measures				
	General Advice:	If symptoms persist, call a physician.			
	If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of apocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.			
	In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.			
	In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
	Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately			
4.2	Most important symptoms and effects:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting			
4.3	Notes to Physician :	Treat symptomatically			

# **SECTION 5: Firefighting effects**

## 5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical, alcohol-

resistant foam.

**Unsuitable Extinguishing** 

Media::

No information available

**5.2** Flash Point : Not applicable

Method: No information available



**Autoignition Temperature:** 

No information available

**Explosion Limits:** 

UpperNo data availableLowerNo data available

**Sensitivity to Mechanical** 

**Impact** 

No information available

**Sensitivity to Static** 

**Discharge** 

No information available

**Specific Hazards Arising from** 

the Chemical:

Keep product and empty container away from heat and sources

of ignition.

**Hazardous Combustion** 

**Products:** 

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen

fluoride. Nitrogen oxides(NOx).

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.

NFPA:

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

#### **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system

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

Sweep up and shovel into suitable containers for disposal. Avoid dust formation

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.



#### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Keep refrigerated. Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.

## **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**

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 StandardEN 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 Solid powder				
	b) Odour No information available				
	c) Odour Threshold No information available				
	d) pH Not applicable				
	e) Melting point / freezing 137 - 139 °C / 278.6 - 282.2 °F point				
	f) Initial boiling point and Not applicable				



boiling range	
g) Flash point	Not applicable
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	No information available
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	No information available
I) Vapour density	Not applicable
m) Specific Gravity	No information available
n) Solubility	Slightly soluble in water
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	No information available
r) Viscosity	Not applicable
s) Molecular formula	C6 H6 F N O
t) Molecular Weight	127.12

	SECTION 10: Stability and Reactivity					
10.1	LO.1 Reactive Hazard: None known, based on information available					
10.2	10.2 Chemical stability: Light sensitive					
10.3	10.3 Possibility of hazardous None under normal processing. reactions:					
10.4	Conditions to avoid :	Excess heat. Exposure to light. Incompatible products.				
10.5	Incompatible materials:	Strong oxidizing agents, Strong bases				
10.6	Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen fluoride, Nitrogen oxides (NOx)				
10.7	Hazardous Polymerization	Hazardous polymerization does not occur				



# **SECTION 11: Toxicological information**

11.1

Information on toxicological effects

**Acute toxicity:** 

Product Information: Component Information

Toxicologically Synergistic Products No information available

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

**Irritation :** No information available

Sensitization: No information available

**Carcinogenicity:** The table below indicates whether each agency ha

Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
4-Amino-3-	399-95-	Not listed	Not	Not listed	Not listed	Not listed
fluorophenol	1		listed			

Mutagenic Effects:	No information available.
Reproductive Effects:	No information available.
Developmental Effects :	No information available.
Teratogenicity:	No information available.
STOT - single exposure :	None known
STOT - repeated exposure:	None known
Aspiration hazard :	No information available.
Symptoms / effects,both acute and delayed:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information :	No information available
Other Adverse Effects :	The toxicological properties have not been fully investigated.



## **SECTION 12: Ecological information**

#### 12.1

#### **Ecotoxicity:**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

12.2	Persistence and degradability:	May persist based on information available	
	Bioaccumulation/ Accumulation	No information available	
12.3	Mobility:	Is not likely mobile in the environment due its low 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**

14.1 UN number:

DOT: UN3077 TDG: UN3077 IATA: UN3077 IMDG: UN3077

14.2 UN proper shipping name

14.2 Oit proper simpping name						
	DOT:	Environmentally hazardous substances, solid, n. o. s.				
	TDG:	Environmentally hazardous substances, solid, n. o. s.				
	IMDG:	Environmentally hazardous substances, solid, n. o. s.				
	IATA:	Environmentally hazardous substances, solid, n. o. s.				
14.3	Transport hazard class(es)	DOT: 9 TDG: 9 IMDG: 9 IATA: 9				
14.4	Packaging group:	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
4-Amino-3- fluorophenol	399-95- 1	-	-	-

#### Legend:



**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories:**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
4-Amino-3- fluorophenol	399-95- 1	-	-	-	-	-	Х	-	-	-

### **U.S. Federal Regulations**

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and Not applicable

**Health Administration** 

**CERCLA** Not applicable

California Proposition 65 This product does not contain any Proposition 65

chemicals.

#### **15.2** U.S. State Right-to-Know Regulations:

Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N



**U.S. Department of Homeland** - This product does not contain the any DHS Chemicals. Security

#### **Other International Regulations**

Mexico – Grade No information available

Component	CAS No	OECD HPV	OECD HPV Persistent		Restriction of	
		Organic	Depletion	Hazardous		
			Pollutant	Potential	Substances (RoHS)	
4-Amino-3-	399-95-1	Not applicable	Not applicable	Not applicable	Not applicable	
fluorophenol						
Component		Directive (2012/18/EC) - Qualifying	Directive (2012/18/EC) - Qualifying	Convention (PIC)	Convention (Hazardous Waste)	
		Quantitiesfor	Quantitiesfor			
		Major Accident	Safety Report			
		Notification	Requirements			
4-Amino-3-	399-95-1	Not applicable	Not applicable	Not applicable	Not applicable	
fluorophenol	l					

## **SECTION 16: Other information**

16.1 Prepared By: Regulatory affairs

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Limited

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**Creation Date:** 23-Mar-2012 24-Mar-2023 **Revision Date: Print Date:** 24-Mar-2023

**Revision Summary:** This document has been updated to comply with the US OSHA

> HazCom 2012 Standard replacing the current legislation under29 C F R 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

#### 16.2 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.