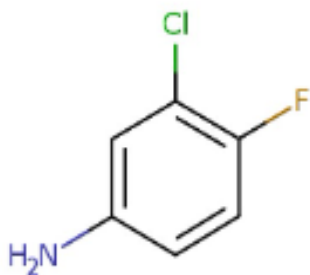


### 1. General Statement

3-Chloro-4-fluoroaniline is a divided solid purple-black powder; it does not mix well with water.

### 2. Chemical identity

Name :3-Chloro-4-fluoroaniline  
CAS number(s) :367-21-5  
EC number :206-682-8  
Molecular formula :C<sub>6</sub>H<sub>5</sub>ClFN  
Structure :



### 3. Uses and Benefits

3-Chloro-4-fluoroaniline used in the following products: pharmaceuticals as well as used for the manufacture of: chemicals. It is also used as an intermediate. Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment conditions.

### 4. Physical / chemical properties

| Property             | Value               |
|----------------------|---------------------|
| Physical state :     | Solid               |
| Colour :             | Purple-black powder |
| Odour :              | Odourless           |
| pH :                 | 7                   |
| Melting point :      | 42 – 44 °C          |
| Boiling point :      | 227 – 228 °C        |
| Flash point :        | NA                  |
| Density :            | NA                  |
| Solubility in Water: | NA                  |

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### 5. Health Effects

| Effect Assessment  | Result   |
|--|--|
| Acute toxicity (Oral / inhalation / dermal )                   | Toxic if swallowed, Toxic in contact with skin, Toxic if inhaled   |
| Irritation / corrosion<br>Skin / eye/ respiratory tract        | NA   |
| Respiratory or skin sensitisation                              | NA   |
| Toxicity after repeated exposure<br>Oral / inhalation / dermal | May cause damage to organs through prolonged or repeated exposure. |
| Genotoxicity / Mutagenicity                                    | NA   |
| Carcinogenicity  | NA   |
| Toxicity for reproduction                                      | NA   |

### 6. Environmental Effects

| Effect Assessment             | Result                               |
|-------------------------------|--------------------------------------|
| Aquatic toxicity              | No                                   |
| Fate and behavior             | Result                               |
| Persistence and degradability | No additional information available. |
| Bioaccumulative potential     | No additional information available. |

### 7. Exposure

#### Human health

Toxic if swallowed, Toxic in contact with skin, Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. The exposure must be kept as minimum as possible by the use of appropriate risk management measures a suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers. Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals. Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

#### Environment

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Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

## 8. Risk Management Recommendations

### Human health measures

|                                   |   |                                   |
|-----------------------------------|---|-----------------------------------|
| Organizational                    | A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimise exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet. |                                   |
| Protection                        | Eye protection:   | Safety glasses                    |
|                                   | Skin and body protection:   | Wear suitable protective clothing |
|                                   | Respiratory protection:   | Wear respiratory protection.      |
| Engineering controls              | Ensure good ventilation of the work station.  |                                   |
| Environment protective measures   |   |                                   |
| Avoid release to the environment. |   |                                   |

## 9. First-aid measures

**First-aid measures after inhalation:** Remove the person to fresh air and keep them comfortable for breathing. Take medical advice.

**First-aid measures after skin contact:** Wash skin with plenty of water. Remove/Take off immediately all contaminated clothing.

**First-aid measures after eye contact :** Rinse eyes with water as a precaution.

**First-aid measures after ingestion :** Rinse mouth. Call a physician immediately.

## 10. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media :Water spray. Dry powder. Foam.

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Unsuitable extinguishing media :Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :: Toxic fumes may be released.

### **Advice for firefighters**

Precautionary measures fire :Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions :Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

## 11. Accidental release measures

**Protective equipment** :Do not attempt to take action without suitable protective equipment.

**Environmental precautions**:Avoid release to the environment.

**For containment** :Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply.Dam up the liquid spill. Heat exposure: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.

## 12. Disposal consideration

**Regional legislation (waste)** : Disposal must be done according to official regulations.

**Waste treatment methods** : Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Sewage disposal recommendations** : Disposal must be done according to official regulations.

## 13. Handling and storage

**Precautions for safe handling**: Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.Wear personal protective equipment. Use only outdoors or in a well-ventilated area.

**Hygiene measures**: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.Always wash hands after handling the product.

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### 14. Classification and Labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled  
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P302+P352 - If on skin: Wash with plenty of water.  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P311 - Call a poison center or doctor.  
P312 - Call a poison center or doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P322 - Specific treatment (see supplemental first aid instruction on this label)  
P330 - Rinse mouth.  
P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 15. Conclusion

3-Chloro-4-fluoroaniline is Purple-black powder. Toxic if swallowed, Toxic in contact with skin, Toxic if inhaled. May cause damage to organs through prolonged or repeated exposure. Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

### 16. Contact Information within company

#### **Manufacturer**

Aarti Industries Limited

Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (West)

400080 Mumbai - India

T +91-22-6797-6666 - F +91-22-2565 3234

## **GPS Safety Summary**

### **3-Chloro-4-fluoroaniline**

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info@aarti-industries.com - [www.aarti-industries.com](http://www.aarti-industries.com)

This GPS safety summary is intended to give general information about the health, safety and environmental and not intended to provide in-depth details. To obtain the most accurate and current information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.