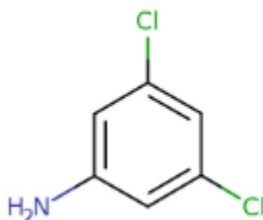


### 1. General Statement

3,5-dichloroaniline is a crystalline powder off white solid. Combustible substance, poorly flammable. Practically very slightly soluble in water. Acute or chronic health hazards result from the substance. The substance is hazardous to the aquatic environment.

### 2. Chemical identification.

Name : 3,5-dichloroaniline  
 CAS number(s) : 626-43-7  
 EC number : 210-948-9  
 Molecular formula : C<sub>6</sub>H<sub>5</sub>Cl<sub>2</sub>N  
 Structure :



### 3. Uses and Benefits

It is used in Chemical intermediate in the manufacture of dyestuffs, herbicides and pharmaceuticals. Environmental pollutants particularly in sea, river and ground water.

### 4. Physical / chemical properties

| Property             | Value                                                  |
|----------------------|--------------------------------------------------------|
| Physical state :     | Solid                                                  |
| Colour :             | White to light brown On exposure to light: turns brown |
| Odour :              | Aromatic odour                                         |
| pH :                 | No data available                                      |
| Melting point :      | 47-52 °C                                               |
| Boiling point :      | 261 °C                                                 |
| Flash point :        | 133 °C                                                 |
| Density :            | 1580 kg/m <sup>3</sup>                                 |
| Solubility in Water: | 0.06 g/100ml                                           |

## 5. Health Effects

| Effect Assessment                                              | Result                                                            |
|----------------------------------------------------------------|-------------------------------------------------------------------|
| Acute toxicity (Oral / inhalation / dermal )                   | Toxic if swallowed, in contact with skin or 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              | Yes                                                                              |
| Fate and behavior             | Result                                                                           |
| Persistence and degradability | Biodegradability in soil: no data available. Not readily biodegradable in water. |
| Bioaccumulative potential     | Low potential for bioaccumulation (Log Kow < 4).                                 |

## 7. Exposure

### Human health

3,5-dichloroaniline Toxic if swallowed. Obstructs oxygen absorption if ingested. Toxic in contact with skin. Obstructs oxygen absorption if absorbed through skin. Toxic if inhaled. Obstructs oxygen absorption if inhaled. Caution! Substance is absorbed through the skin. Methemoglobinemia. Feeling of weakness. Dizziness. Headache. EXPOSURE TO HIGH CONCENTRATIONS: Respiratory difficulties. Blue/grey discolouration of the skin. Symptoms similar to those listed under ingestion. EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the eye tissue. Inflammation/damage of the eye tissue. Symptoms similar to those listed under inhalation. Nausea. Abdominal pain. ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Change in the haemogramme/blood composition. Blue/grey discolouration of the skin. The exposure must be kept as minimum as possible by the use of appropriate risk management measures 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

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## 3,5-dichloroaniline

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potentially hazardous levels of chemicals. Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

### Environment

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

|                                        |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                          |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Organizational</b>                  | 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. |                                                                                                                                                                          |
| <b>Protection</b>                      | Eye protection:                                                                                                                                                                                                                                                                             | Face shield (EN 166). In case of dust production: protective goggles (EN 166)                                                                                            |
|                                        | Skin and body protection:                                                                                                                                                                                                                                                                   | Protective clothing (EN 14605 or EN 13034). In case of dust production: head/neck protection. In case of dust production: dustproof clothing (EN 13982)                  |
|                                        | Respiratory protection:                                                                                                                                                                                                                                                                     | Dust production: dust mask with filter type P3. Combined gas/dust mask with filter type A/P3. High dust production: self-contained breathing apparatus (EN 136 + EN 137) |
| <b>Engineering controls</b>            | Ensure good ventilation of the work station.                                                                                                                                                                                                                                                |                                                                                                                                                                          |
| <b>Environment protective measures</b> |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                          |
| Avoid release to the environment       |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                          |

## 9. First-aid measures

**First-aid measures after inhalation:** Remove the victim into fresh air. Immediately consult a doctor/medical service.

**First-aid measures after skin contact:** Wash immediately with lots of water. Soap may be used. Remove clothing before washing. Consult a doctor/medical service.

**First-aid measures after eye contact:** EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the eye tissue. Inflammation/damage of the eye tissue.

**First-aid measures after ingestion :** Symptoms similar to those listed under inhalation. Nausea. Abdominal pain.

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### 10. Fire-fighting measures

#### **Extinguishing media**

**Suitable extinguishing media:** Quick-acting ABC powder extinguisher. Class A foam extinguisher. Water (quick-acting extinguisher, reel). Water. Class A foam.

**Unsuitable extinguishing media :** Quick-acting BC powder extinguisher. Quick-acting CO2 extinguisher.

#### **Special hazards arising from the substance or mixture**

**Hazardous decomposition products in case of fire:** On burning: release of toxic and corrosive gases/vapours (chlorine, nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

#### **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:** Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

### 11. Accidental release measures

**Protective equipment :** Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Dust cloud production: self-contained breathing apparatus (EN 136 + EN 137). Dust cloud production: dust-tight suit (EN 13982).

**Environmental precautions:** Prevent soil and water pollution. Prevent spreading in sewers.

**For containment :** Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust clouds with water spray. Take account of toxic/corrosive precipitation water. Powdered form: no compressed air for pumping over spills.

### 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.

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### 13. Handling and storage

**Precautions for safe handling:**Avoid raising dust. Keep away from naked flames/heat. In a finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over. Keep the container tightly closed.

**Hygiene measures :**Observe strict hygiene.

### 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

3,5-dichloroaniline is a crystalline powder off white solid. Combustible substance, poorly flammable. Practically very slightly soluble in water. Acute or chronic health hazards result from the substance. The substance is hazardous to the aquatic environment. The substance can react dangerously with: oxidizing agents, acids, acid chlorides, acid anhydrides. Reaction with nitrosating agents (e.g. nitrites, nitrous acid, nitrous gases) can release cancerogenic nitrosamines. 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

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### 3,5-dichloroaniline

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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

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400080 Mumbai - India

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info@aarti-industries.com - www.aarti-industries.com

This GPS safety summary is intended to give general information about the health, safety and environment 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.